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Figure 1

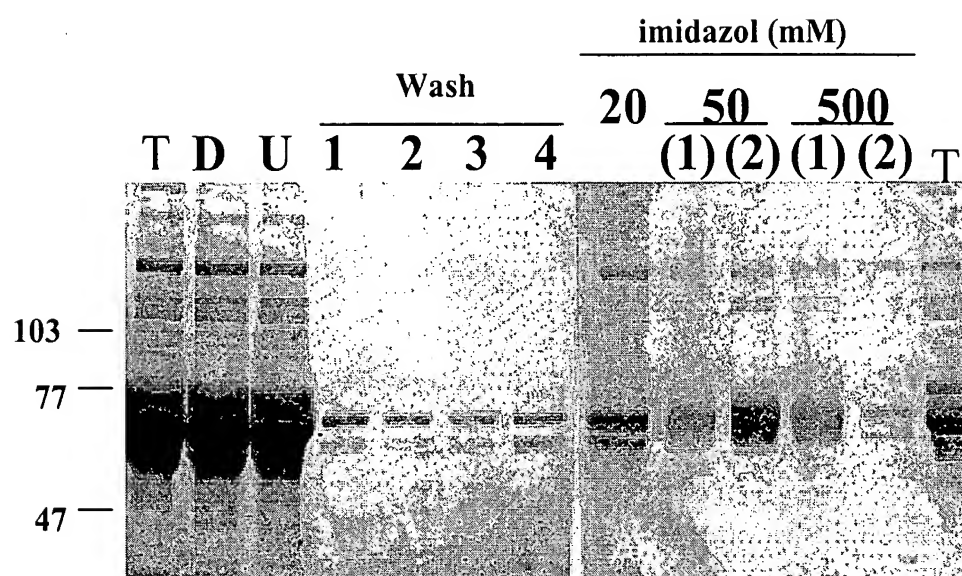


Figure 2

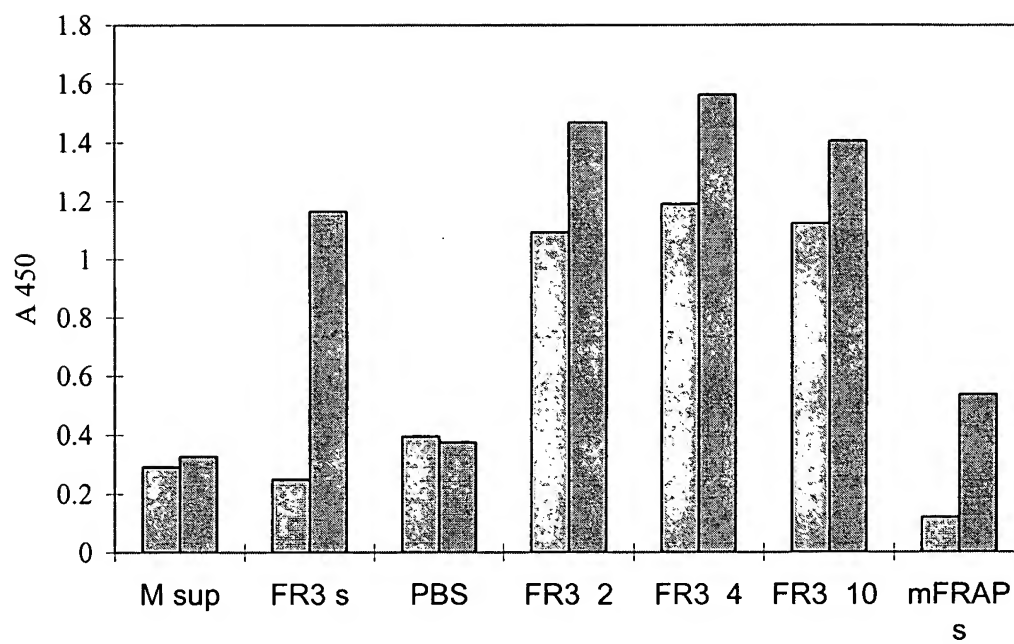


Figure 3

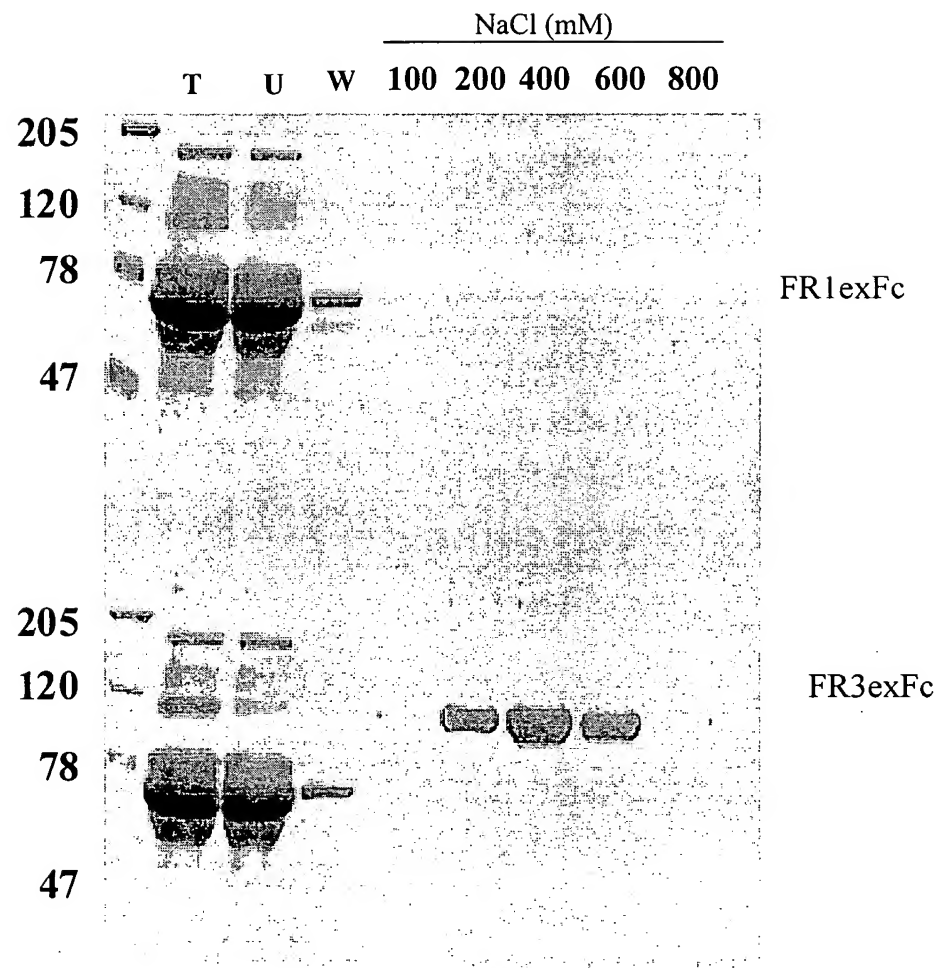


Figure 4

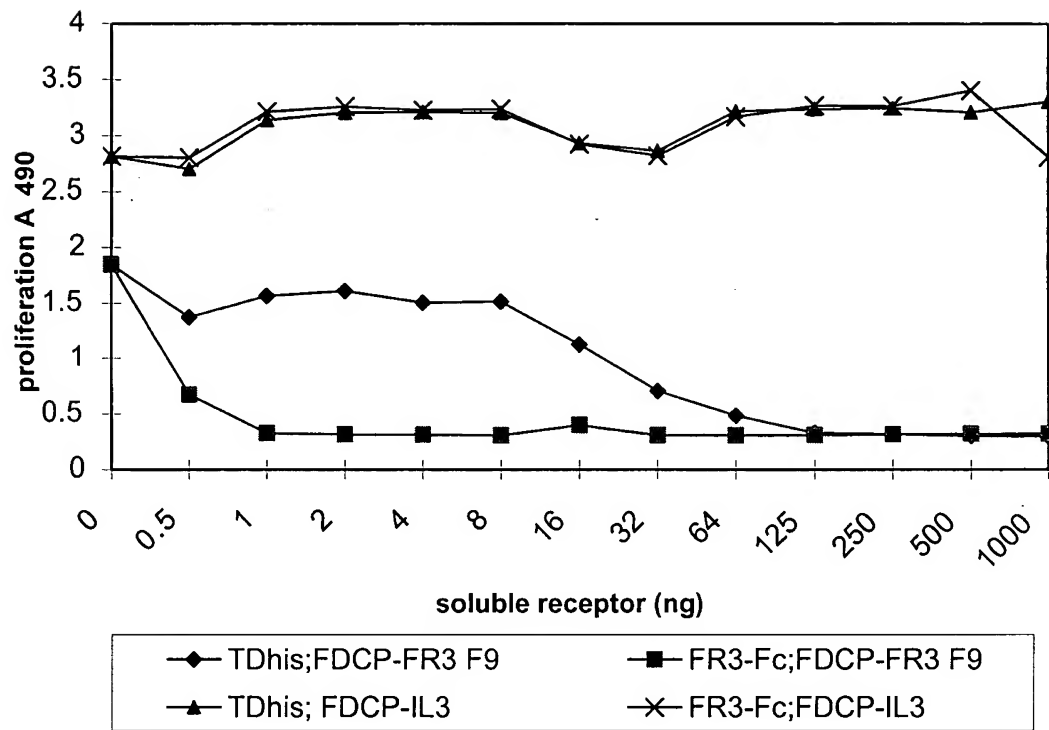


Figure 5

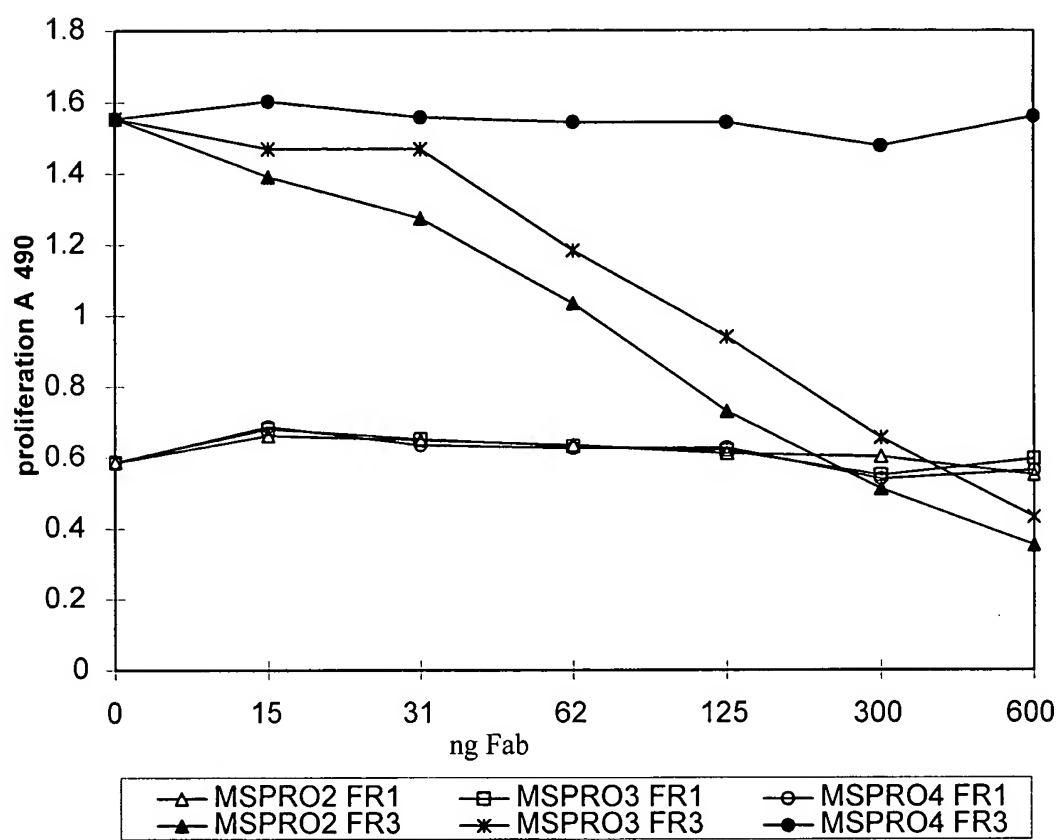


Figure 6

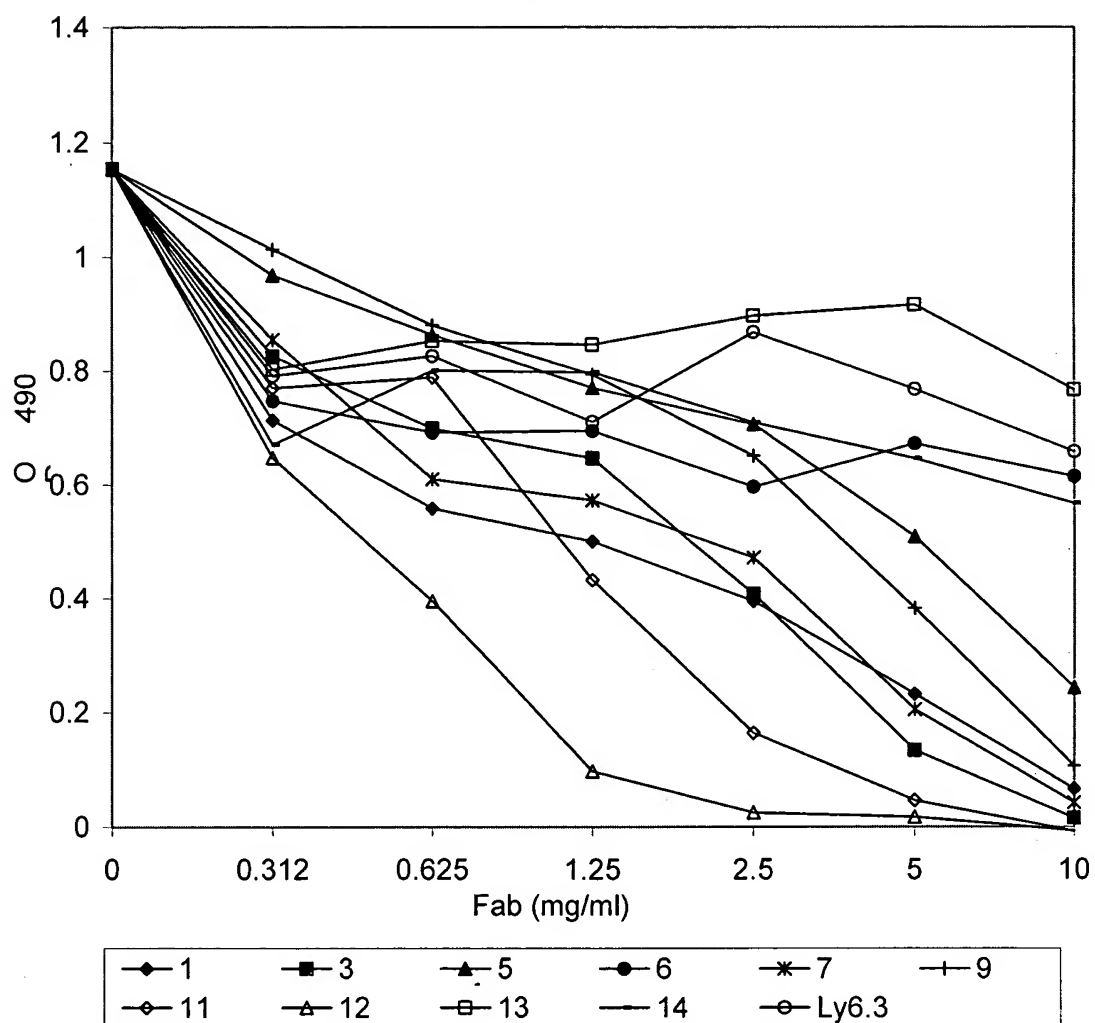


Figure 7A

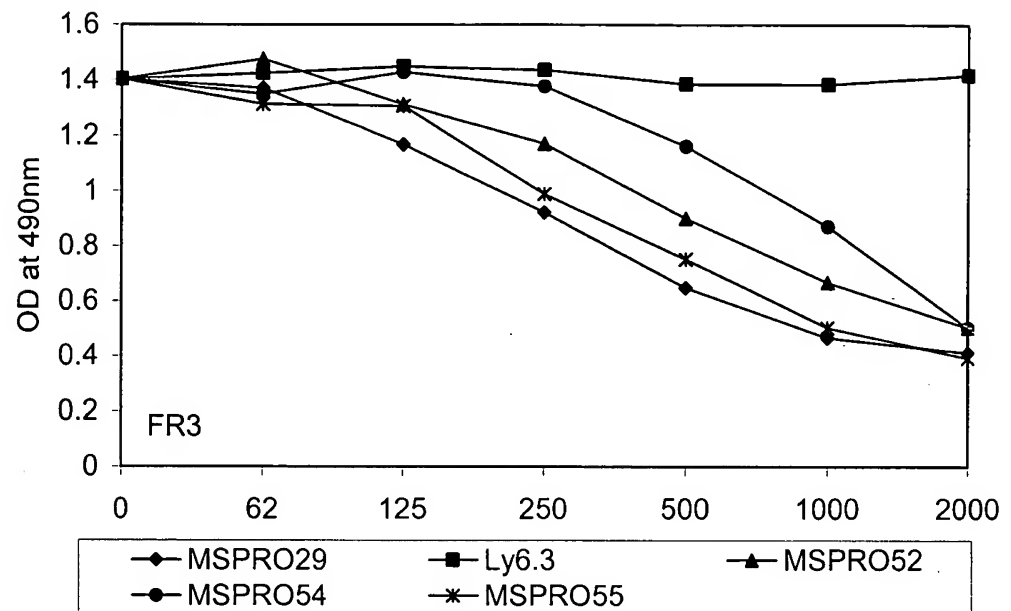


Figure 7B

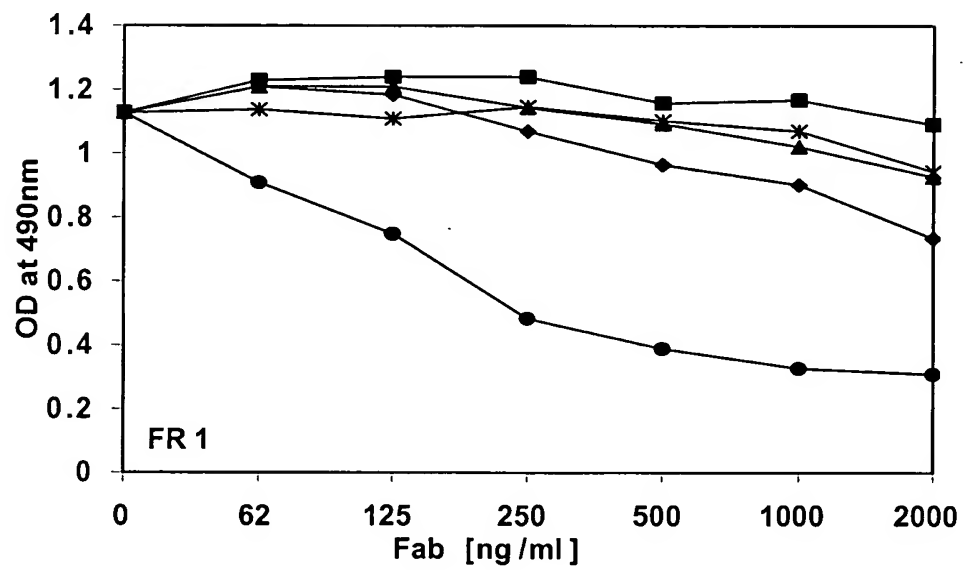


Figure 8A

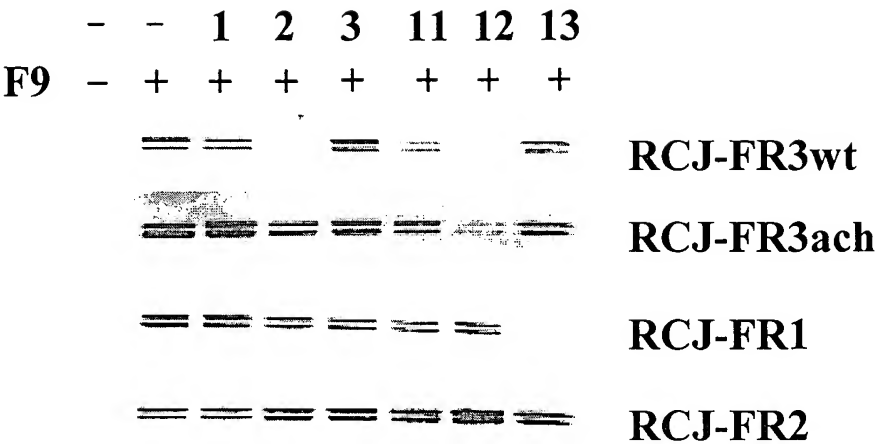


Figure 8B

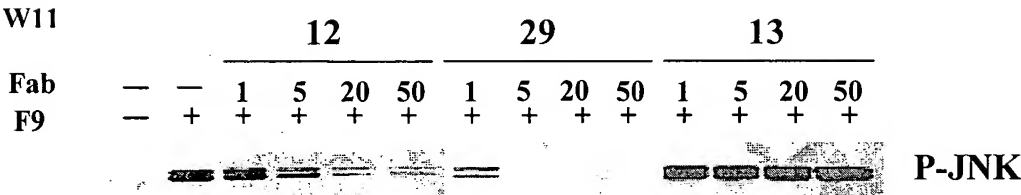


FIGURE 9A

M14

MSPRO (μg)	<u>LY6.3</u>				<u>29</u>				<u>59</u>				<u>54</u>			
	20	10	5	1	20	10	5	1	20	10	5	1	20	10	5	1
F9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+




FIGURE 9B

W11

MSPRO (μg)	<u>LY6.3</u>				<u>29</u>				<u>59</u>				<u>54</u>			
	20	10	5	1	20	10	5	1	20	10	5	1	20	10	5	1
F9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+




FIGURE 9C

R1-1

MSPRO (μg)	<u>LY6.3</u>				<u>29</u>				<u>59</u>				<u>54</u>			
	20	10	5	1	20	10	5	1	20	10	5	1	20	10	5	1
F9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+




FIGURE 9D

R2-2

MSPRO (μg)	<u>LY6.3</u>				<u>29</u>				<u>59</u>				<u>54</u>			
	20	10	5	1	20	10	5	1	20	10	5	1	20	10	5	1
F9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+




Figure 10

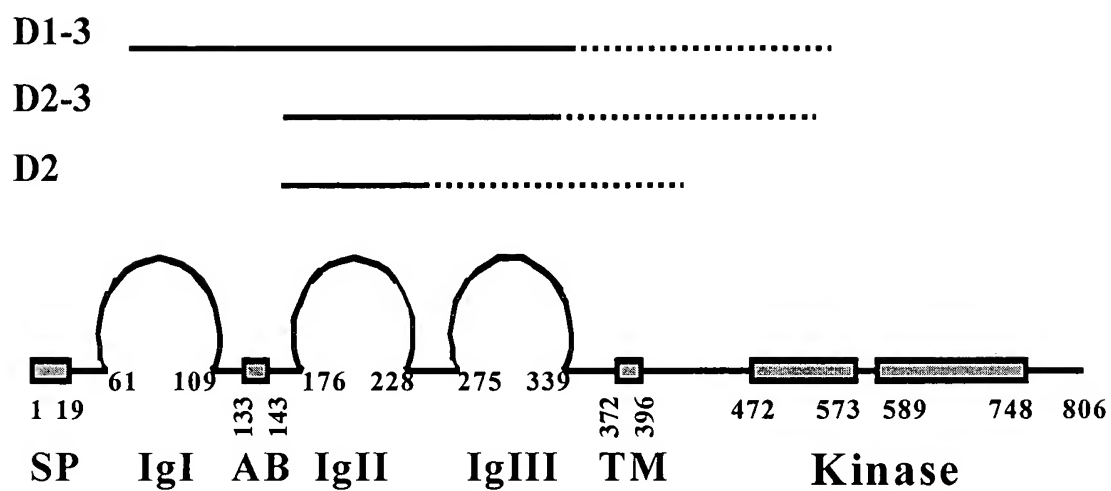


Figure 11

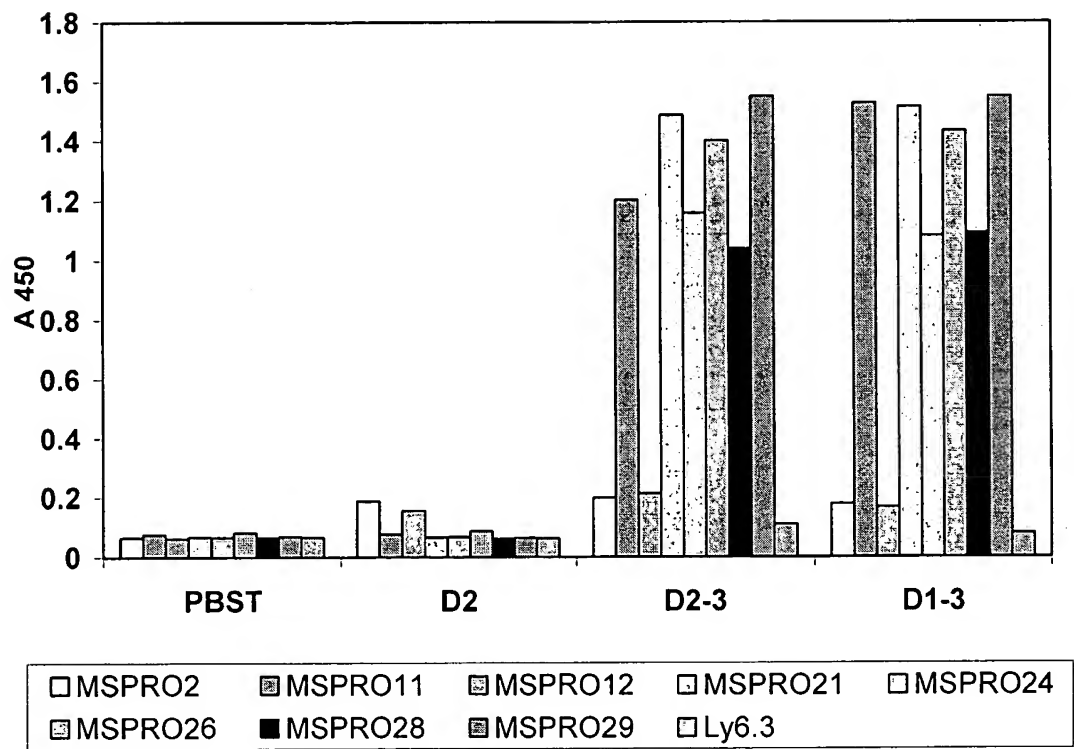


Figure 12

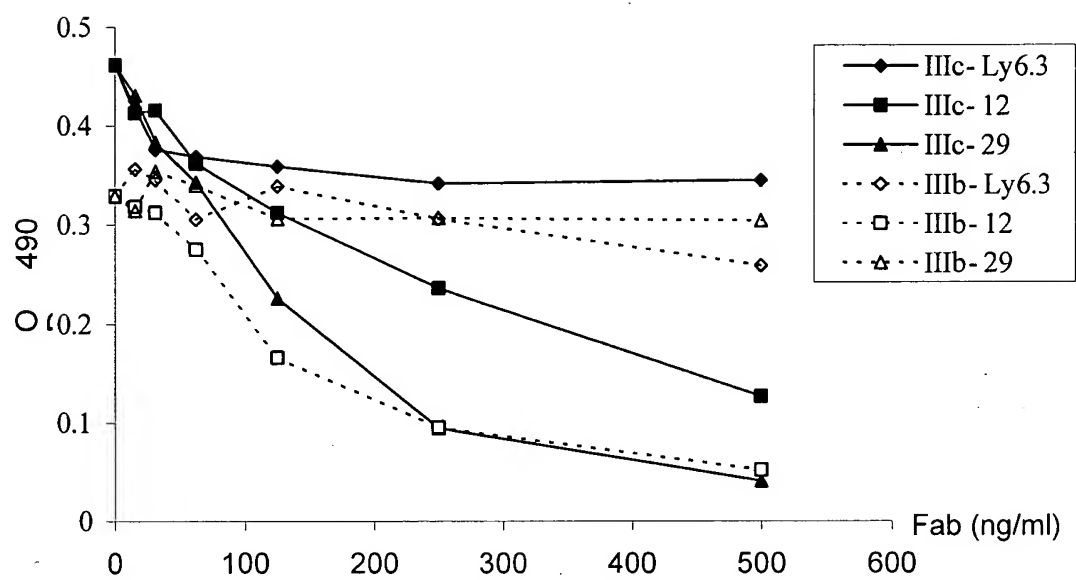


Figure 13A

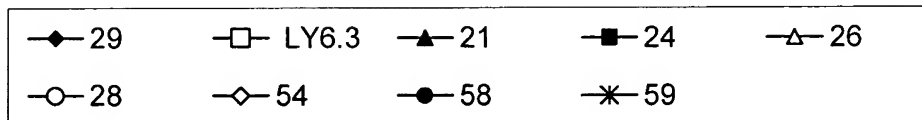
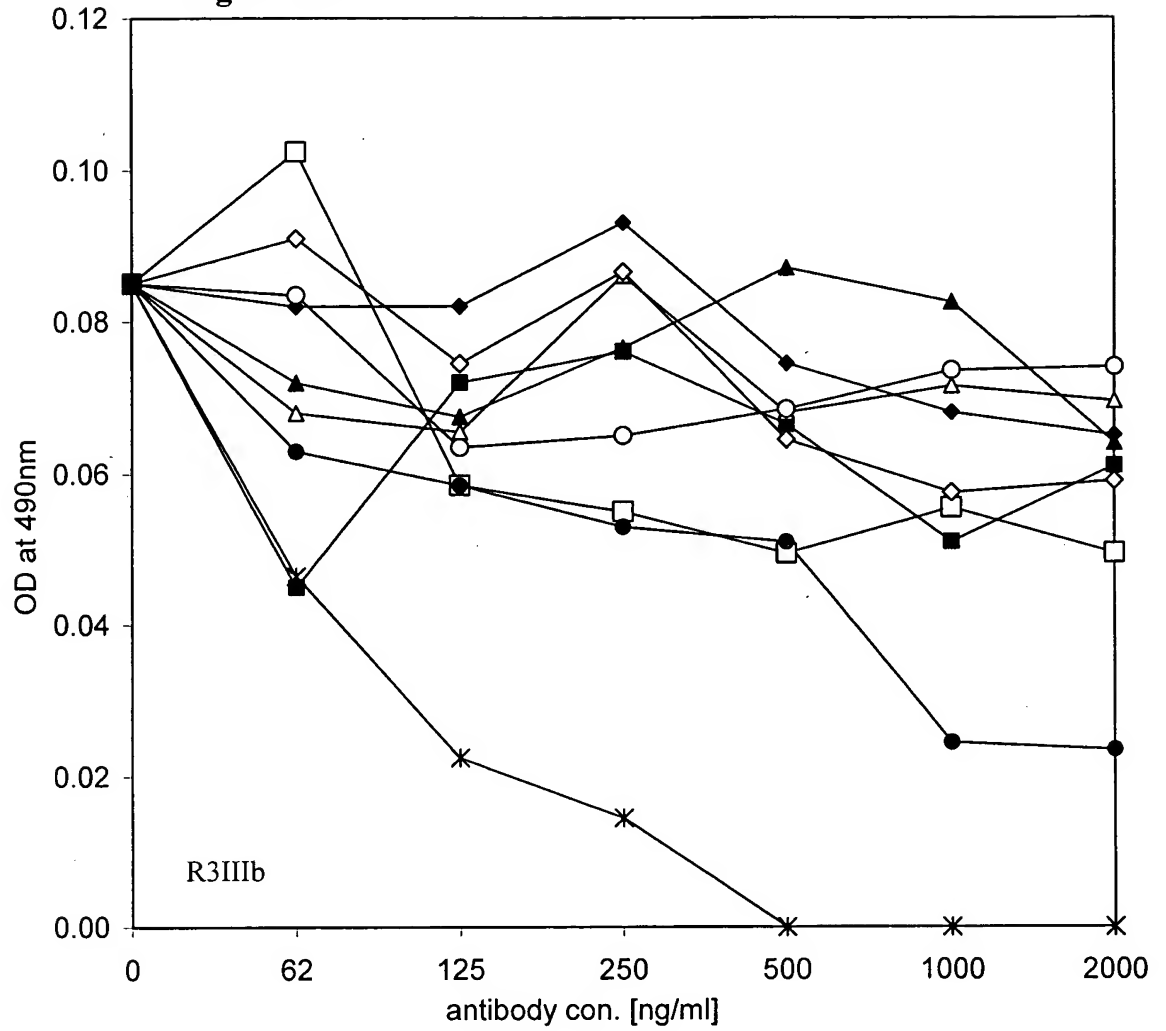


Figure 13B

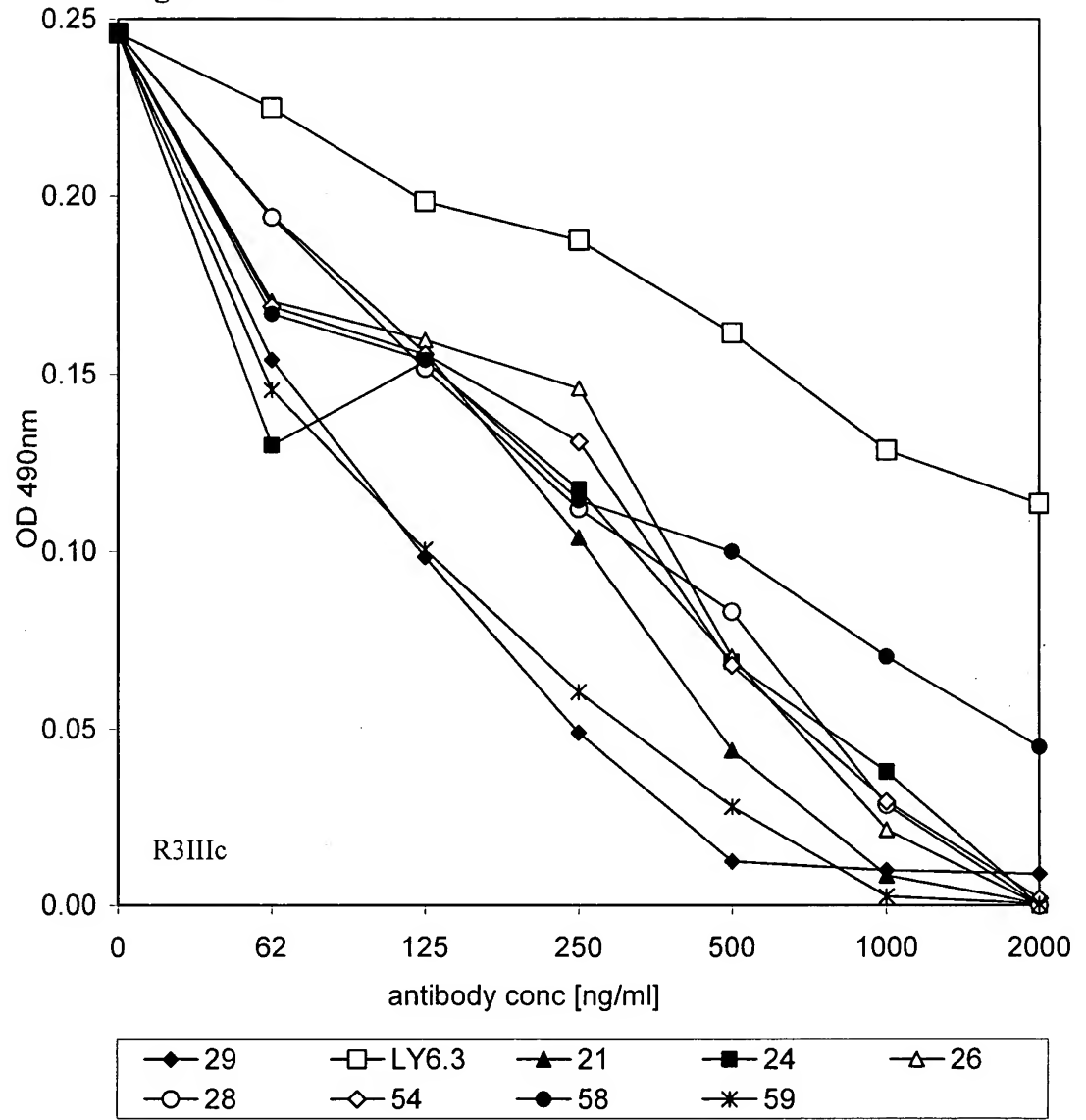


Figure 14

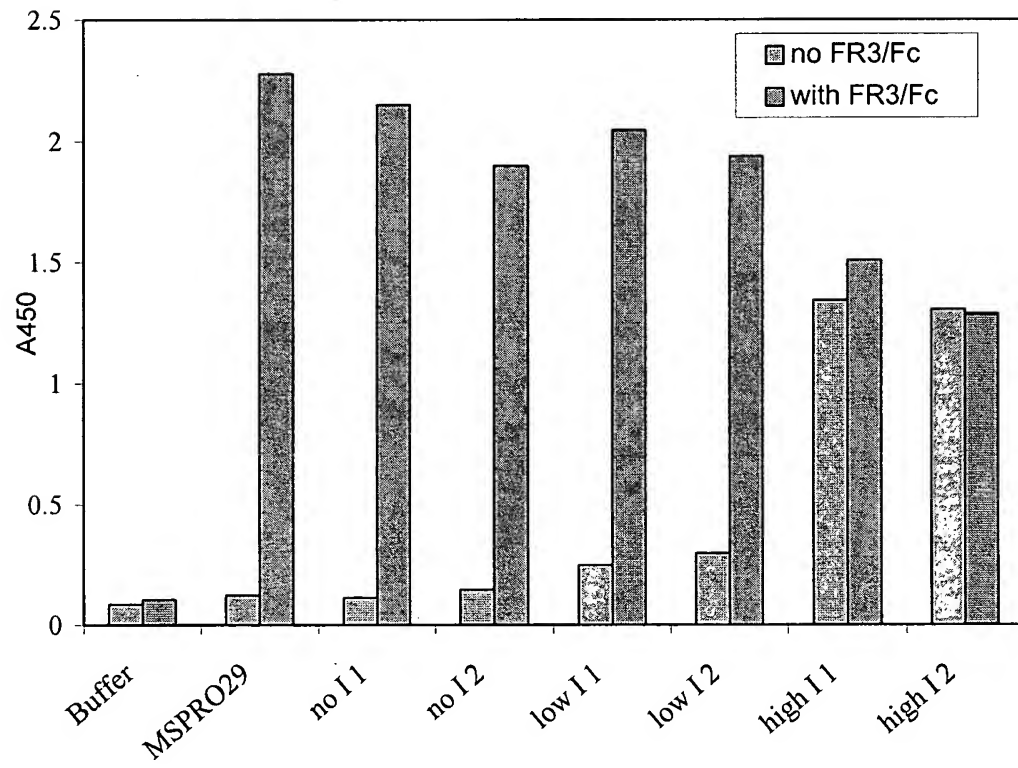
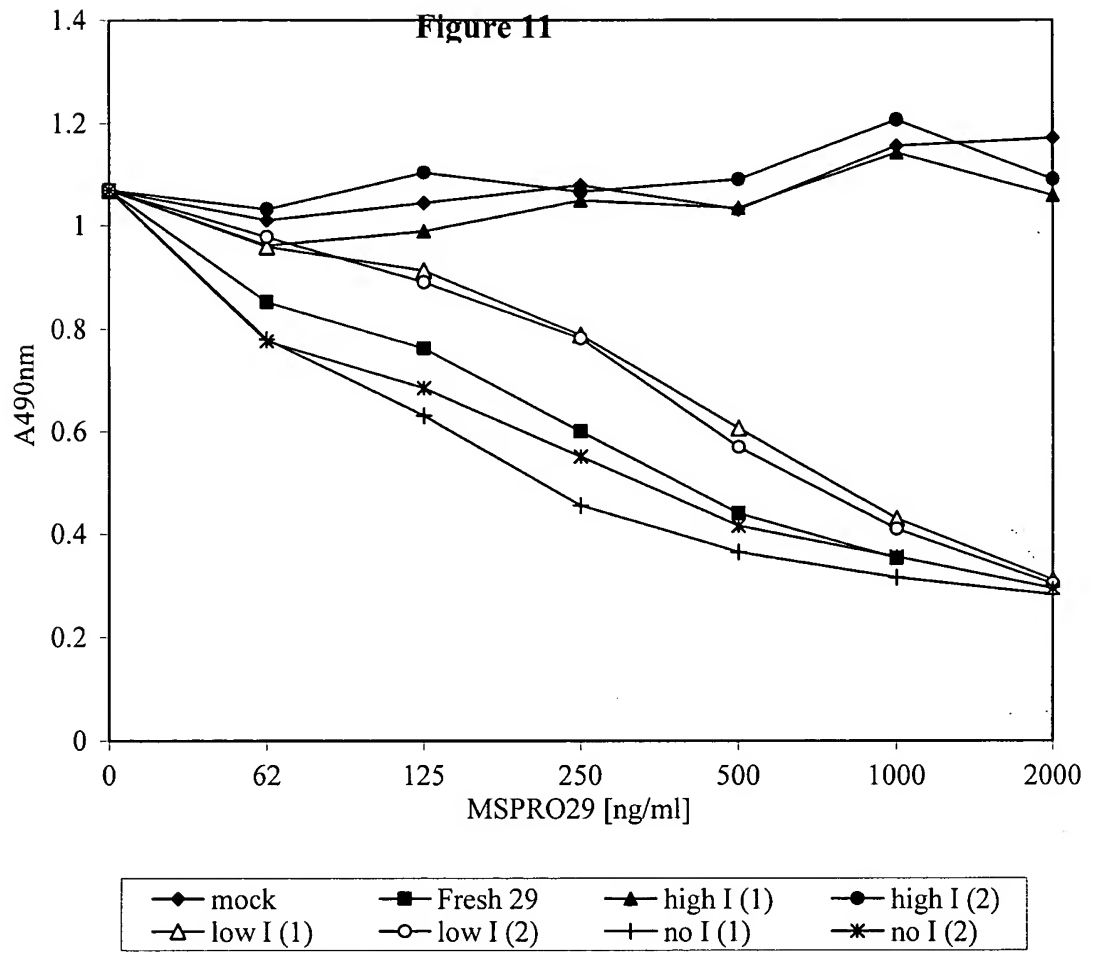


Figure 15



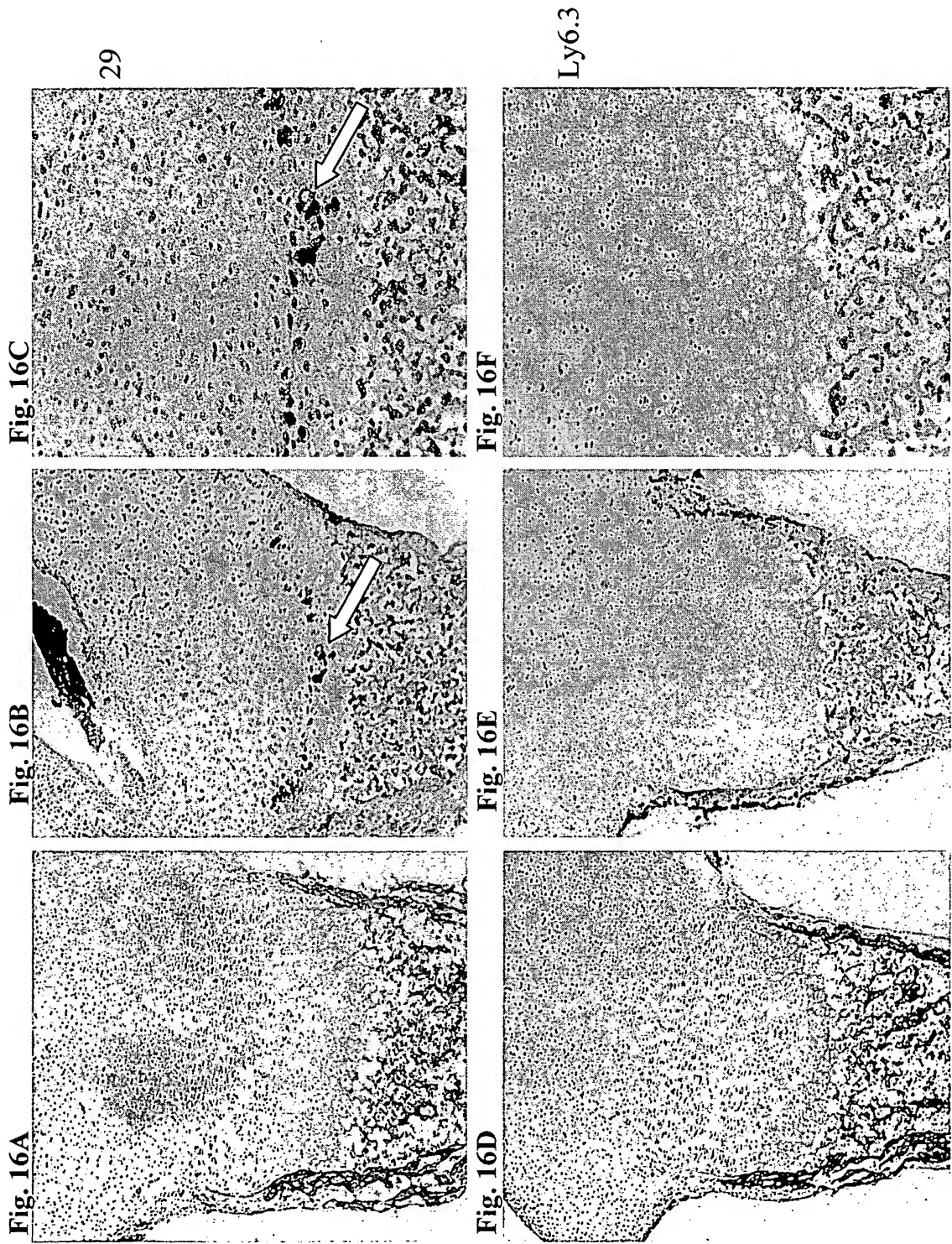


Figure 17A

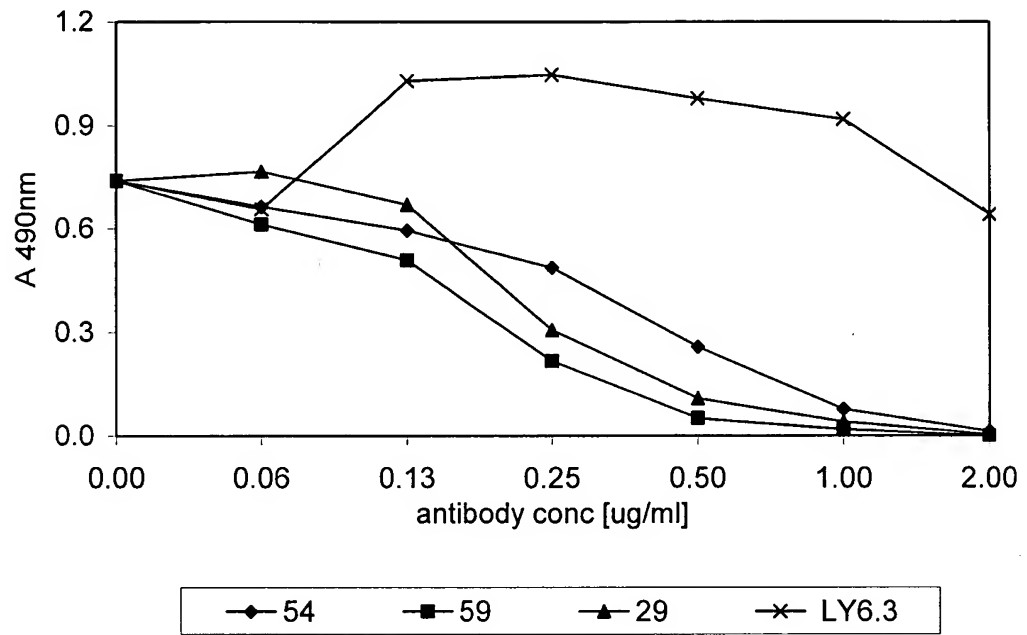


Figure 17B

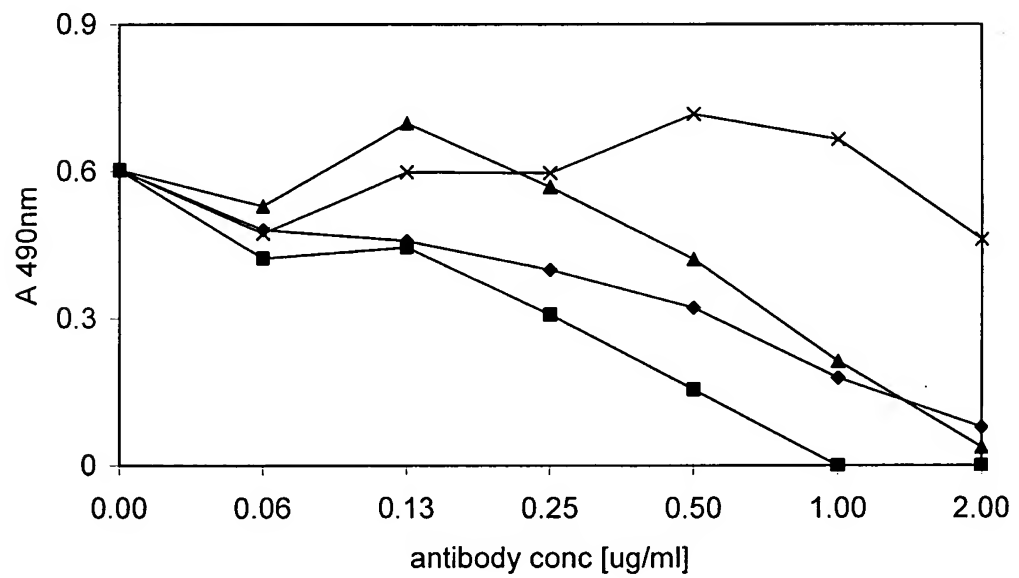


Figure 18A

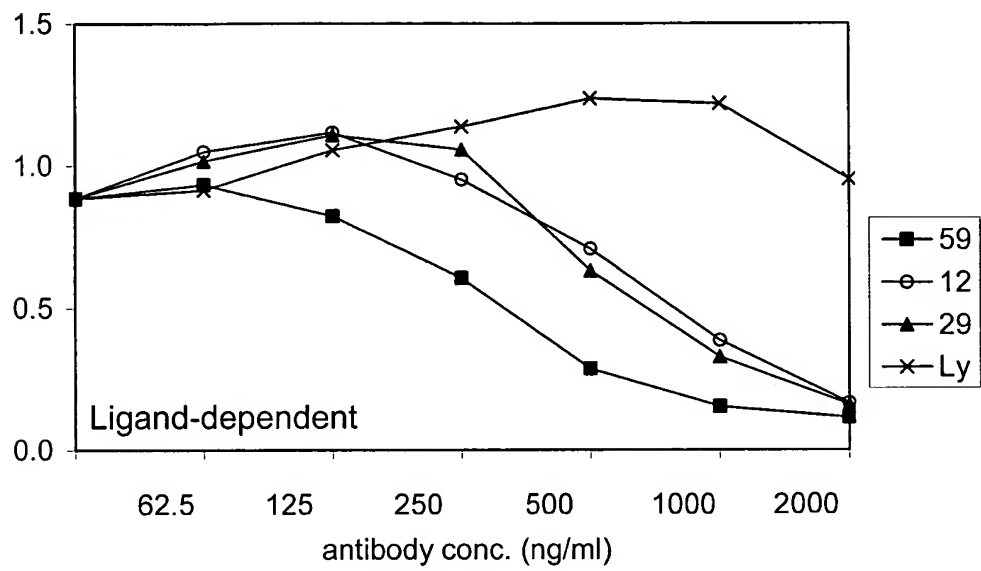


Figure 18B

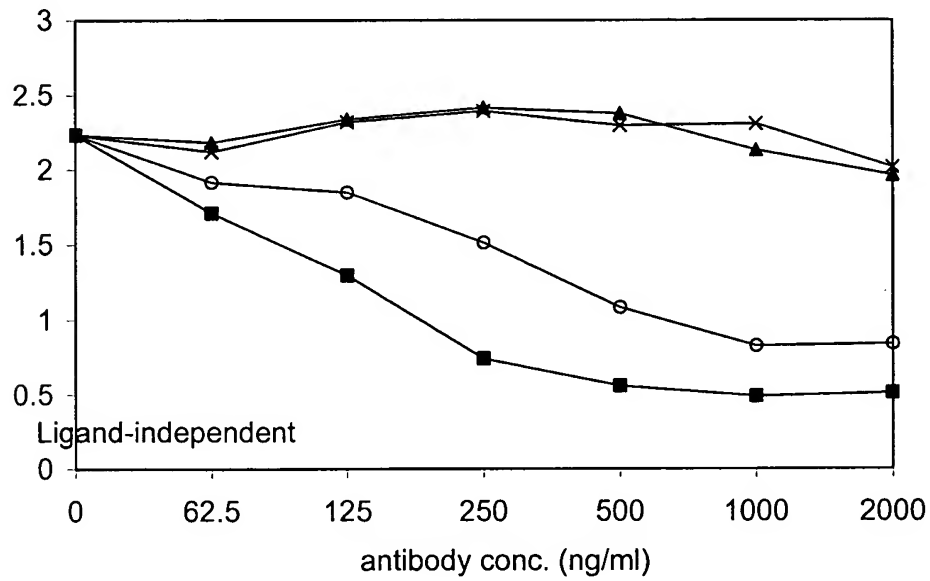


Figure 19

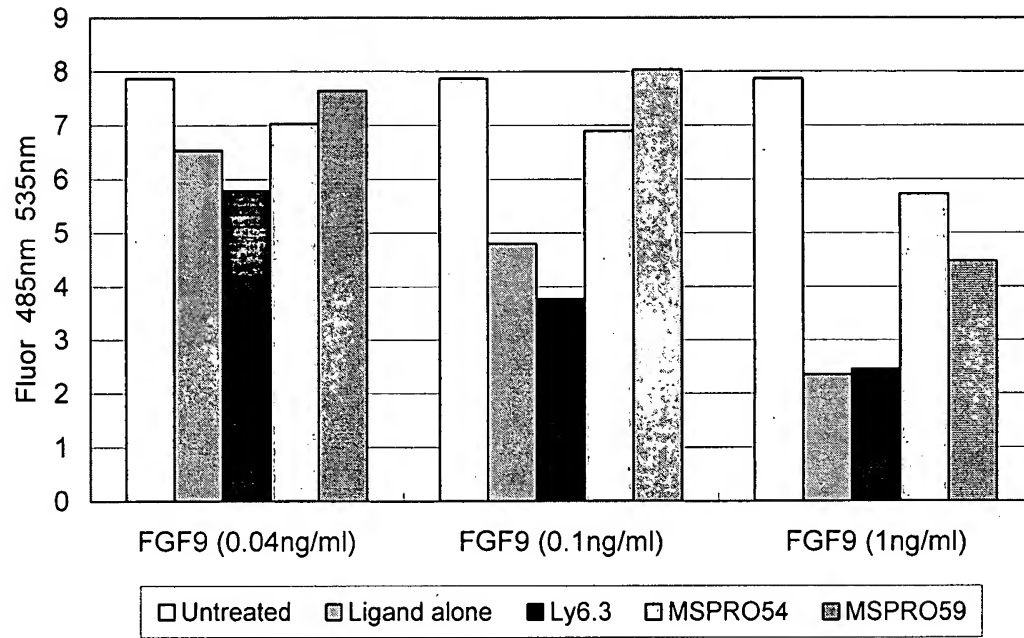


Figure 20

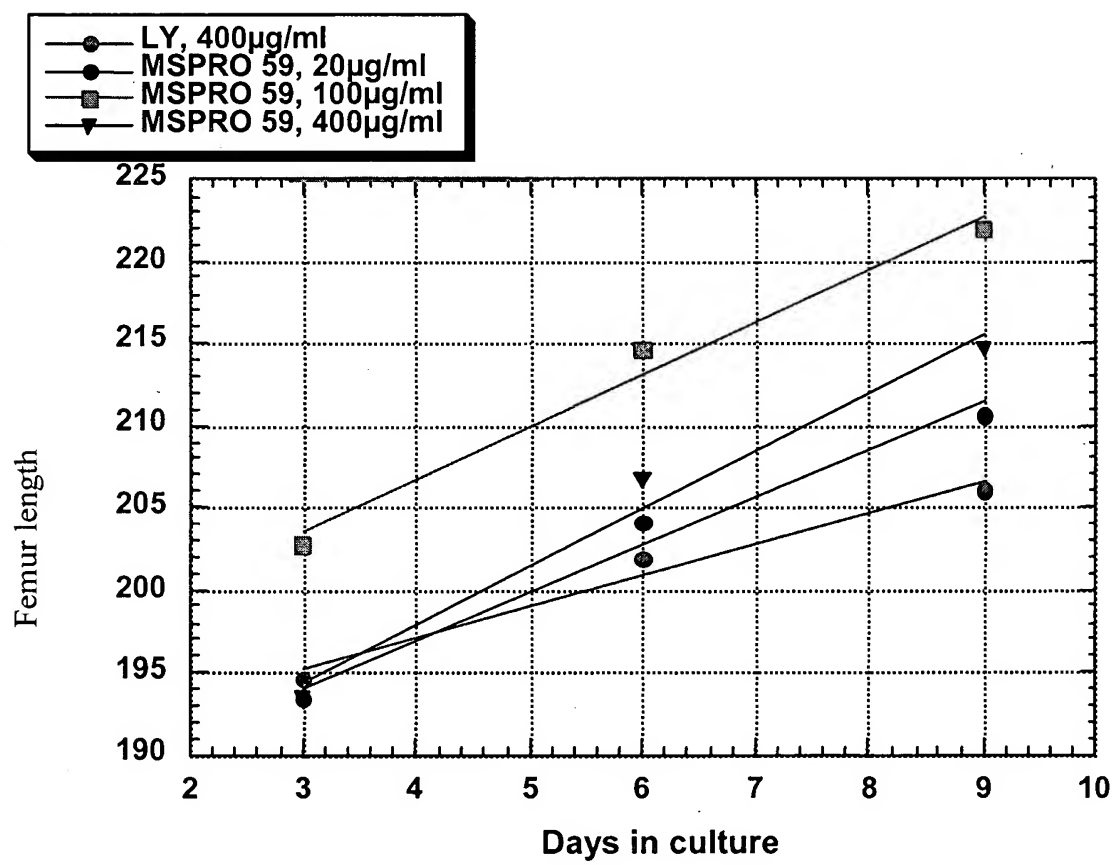


Figure 21

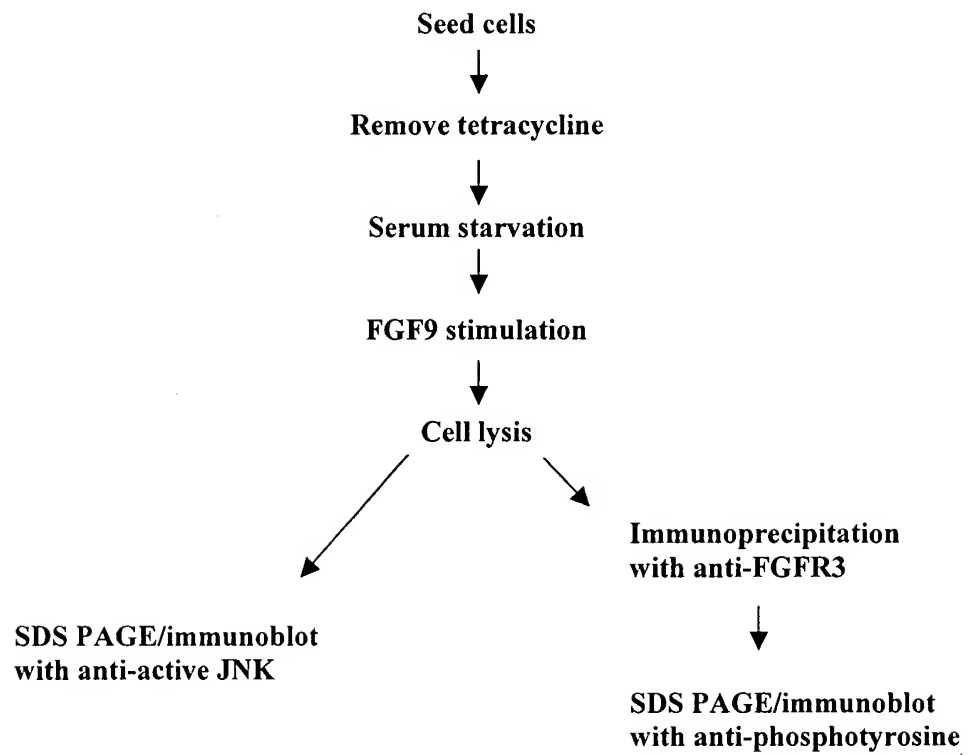


Figure 22

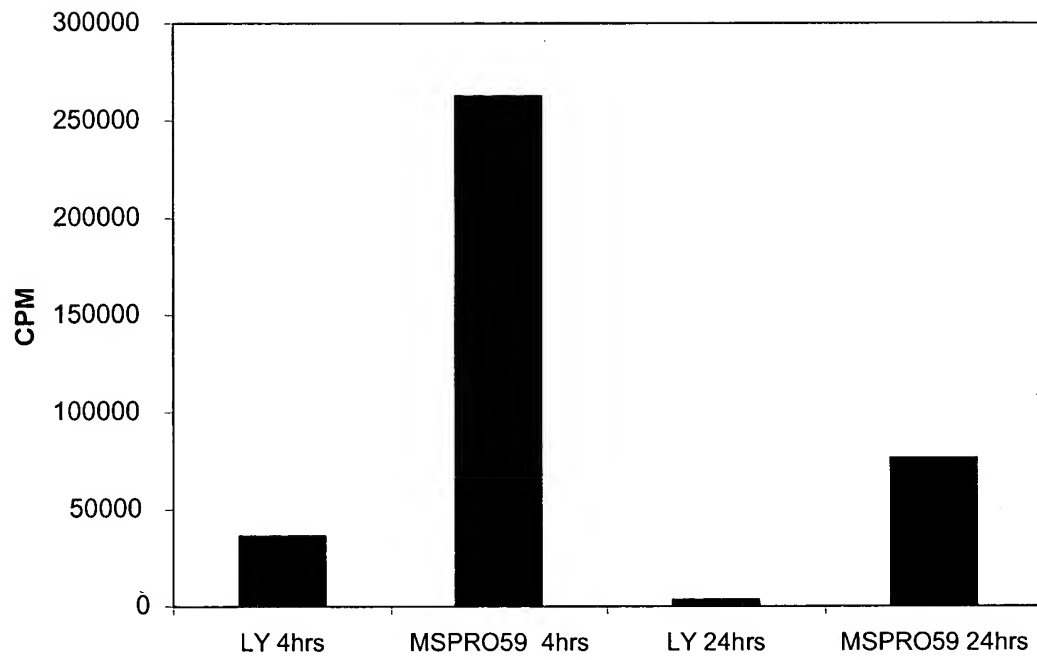


Figure 23

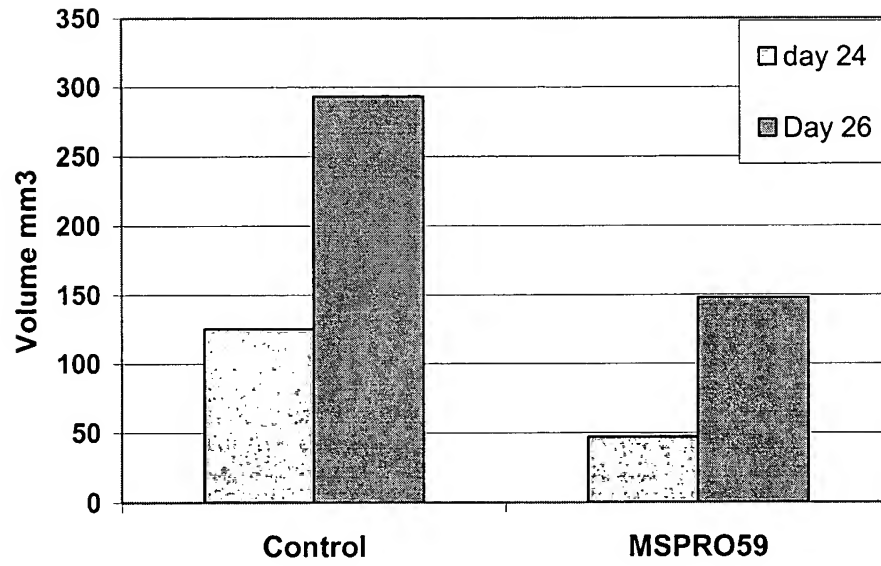


Figure 24

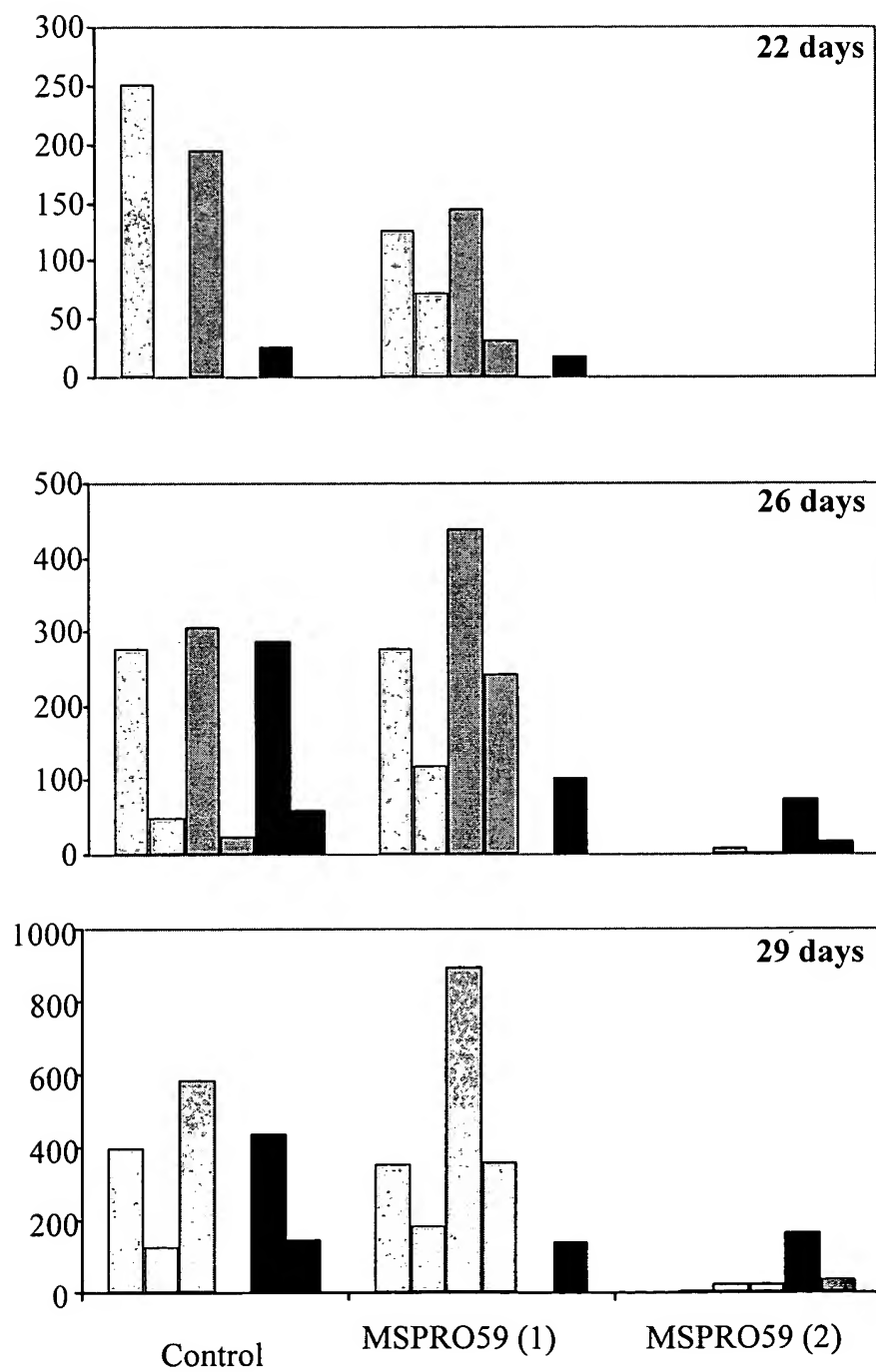


Figure 25A

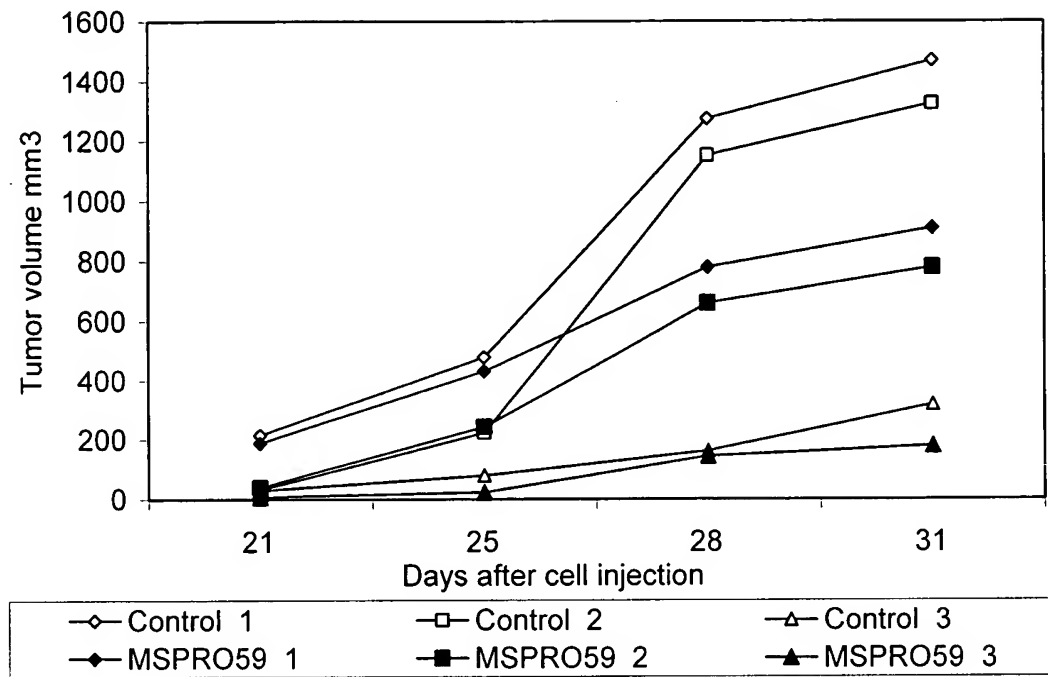


Figure 25B

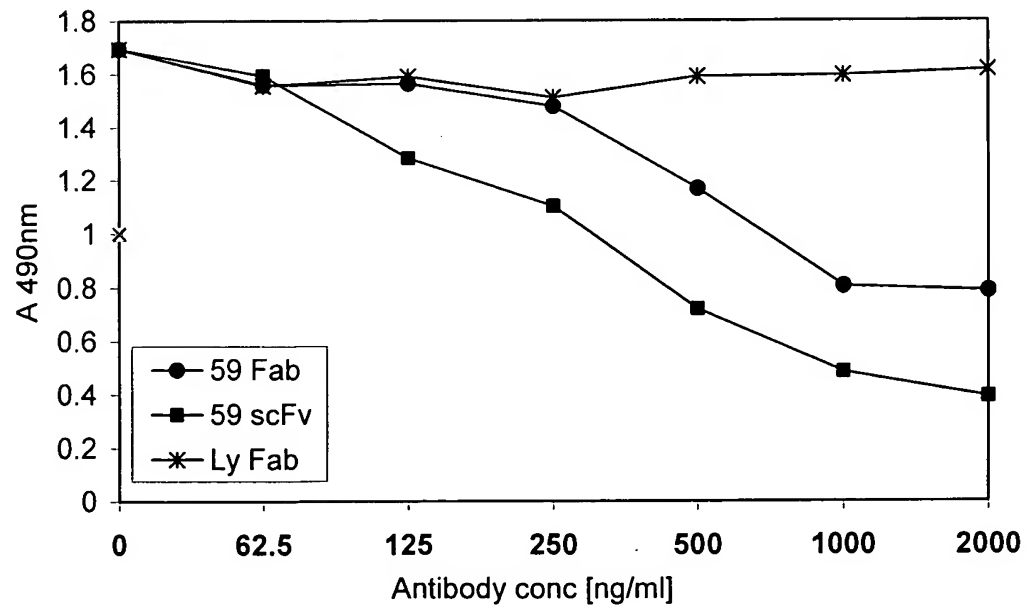


Figure 26

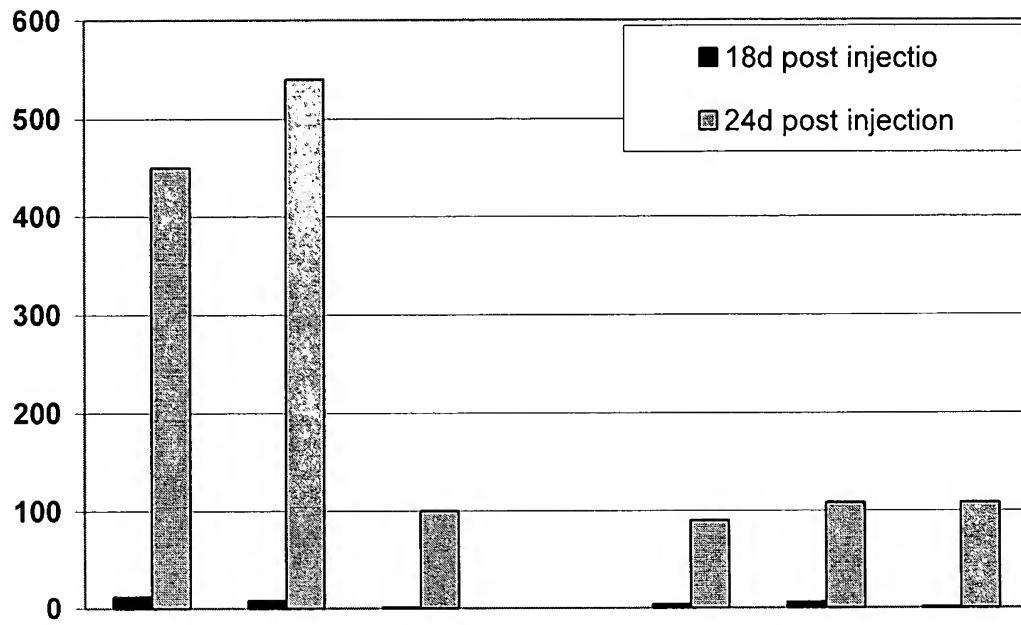


Figure 27

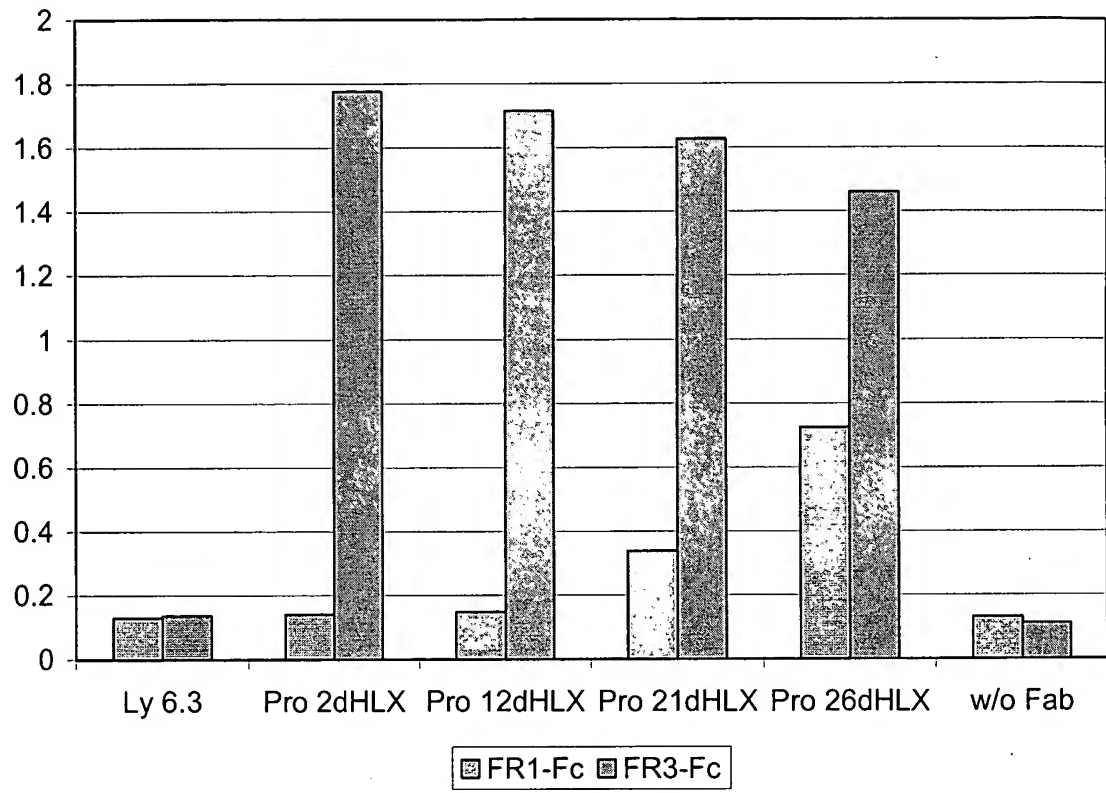


Figure 28

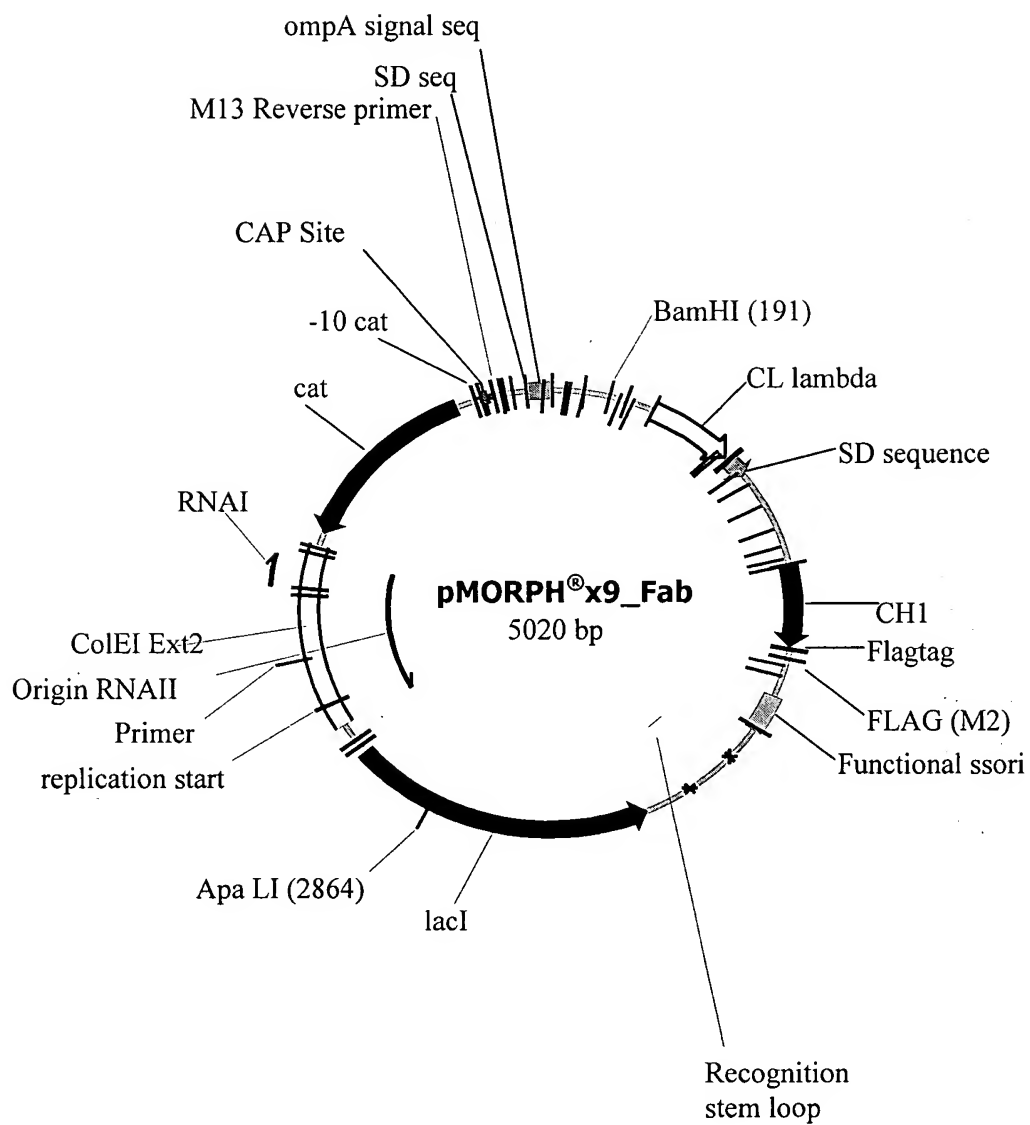


Figure 29

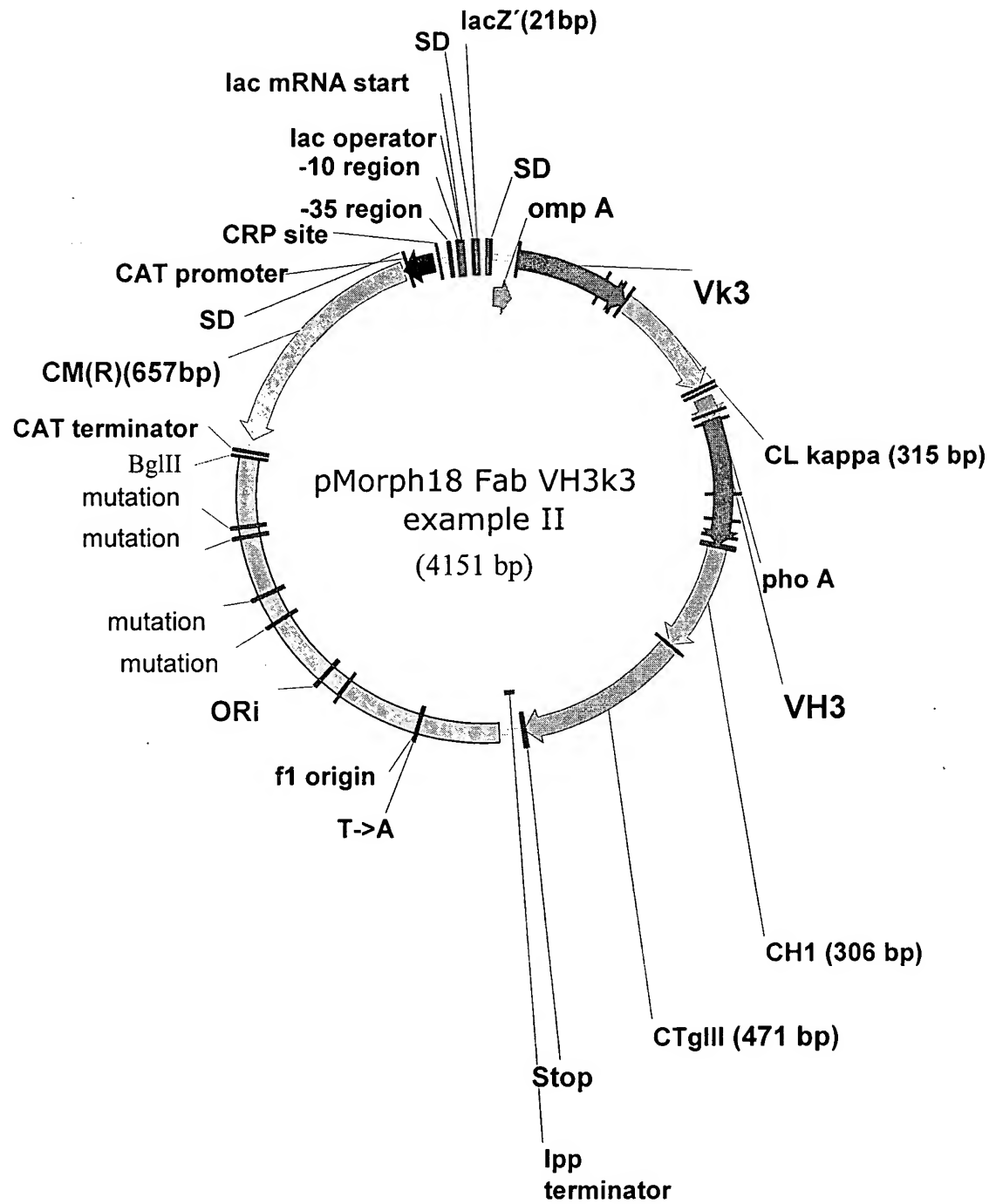


Figure 30

VL	Position	Framework 1																															
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		EcoRV																BanII															
	VLk1 (SEQ ID NO: 61)	GAT	ATC	CAG	ATG	ACC	CAG	AGC	CCG	TCT	AGC	CTG	AGC	GCG	AGC	GTG	GGT	GAT	CGT														
	MSPro28 (SEQ ID NO: 62)	GAT	ATC	CAG	ATG	ACC	CAG	AGC	CCG	TCT	AGC	CTG	AGC	GCG	AGC	GTG	GGT	GAT	CGT														
	VLk3 (SEQ ID NO: 63)	GAT	ATC	GTG	CTG	ACC	CAG	AGC	CCG	GCG	ACC	CTG	AGC	CTG	TCT	CCG	GGC	GAA	CGT														
	MSPro24 (SEQ ID NO: 64)	GAT	ATC	GTG	CTG	ACC	CAG	AGC	CCG	GCG	ACC	CTG	AGC	CTG	TCT	CCG	GGC	GAA	CGT														
	MSPro29 (SEQ ID NO: 65)	GAT	ATC	GTG	CTG	ACC	CAG	AGC	CCG	GCG	ACC	CTG	AGC	CTG	TCT	CCG	GGC	GAA	CGT														
	VLk4 (SEQ ID NO: 66)	GAT	ATC	GTG	ATG	ACC	CAG	AGC	CCG	GAT	AGC	CTG	GCG	GTG	AGC	CTG	GGC	GAA	CGT														
	MSPro21 (SEQ ID NO: 67)	GAT	ATC	GTG	ATG	ACC	CAG	AGC	CCG	GAT	AGC	CTG	GCG	GTG	AGC	CTG	GGC	GAA	CGT														
	VL12 (SEQ ID NO: 68)	GAT	ATC	GCA	CTG	ACC	CAG	CCA	GCT	.	TCA	GTG	AGC	GGC	TCA	CCA	GGT	CAG	AGC														
	MSPro55 (SEQ ID NO: 69)	GAT	ATC	GCA	CTG	ACC	CAG	CCA	GCT	.	TCA	GTG	AGC	GGC	TCA	CCA	GGT	CAG	AGC														
	MSPro11 (SEQ ID NO: 70)	GAT	ATC	GCA	CTG	ACC	CAG	CCA	GCT	.	TCA	GTG	AGC	GGC	TCA	CCA	GGT	CAG	AGC														
	MSPro26 (SEQ ID NO: 71)	GAT	ATC	GCA	CTG	ACC	CAG	CCA	GCT	.	TCA	GTG	AGC	GGC	TCA	CCA	GGT	CAG	AGC														
	VL13 (SEQ ID NO: 72)	GAT	ATC	GAA	CTG	ACC	CAG	CCG	CCT	.	TCA	GTG	AGC	GTT	GCA	CCA	GGT	CAG	ACC														
	MSPro54 (SEQ ID NO: 73)	GAT	ATC	GAA	CTG	ACC	CAG	CCG	CCT	.	TCA	GTG	AGC	GTT	GCA	CCA	GGT	CAG	ACC														
	MSPro2 (SEQ ID NO: 74)	GAT	ATC	GAA	CTG	ACC	CAG	CCG	CCT	.	TCA	GTG	AGC	GTT	GCA	CCA	GGT	CAG	ACC														
	MSPro12 (SEQ ID NO: 75)	GAT	ATC	GAA	CTG	ACC	CAG	CCG	CCT	.	TCA	GTG	AGC	GTT	GCA	CCA	GGT	CAG	ACC														
	MSPro59 (SEQ ID NO: 76)	GAT	ATC	GAA	CTG	ACC	CAG	CCG	CCT	.	TCA	GTG	AGC	GTT	GCA	CCA	GGT	CAG	ACC														
VH	Position	Framework 1																MfeI															
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8														
	VH1A (SEQ ID NO: 77)	GAA/CAG	GTG	CAA	TTG	GTT	CAG	TCT	GGC	GCG	GAA	GTG	AAA	AAA	CCG	GGC	AGC	AGC	GTG														
	MSPro21 (SEQ ID NO: 78)	CAG	GTG	CAA	TTG	GTT	CAG	TCT	GGC	GCG	GAA	GTG	AAA	AAA	CCG	GGC	AGC	AGC	GTG														
	MSPro24 (SEQ ID NO: 79)	CAG	GTG	CAA	TTG	GTT	CAG	TCT	GGC	GCG	GAA	GTG	AAA	AAA	CCG	GGC	AGC	AGC	GTG														
	MSPro28 (SEQ ID NO: 80)	CAG	GTG	CAA	TTG	GTT	CAG	TCT	GGC	GCG	GAA	GTG	AAA	AAA	CCG	GGC	AGC	AGC	GTG														
	VH1B (SEQ ID NO: 81)	GAA/CAG	GTG	CAA	TTG	GTT	CAG	AGC	GGC	GCG	GAA	GTG	AAA	AAA	CCG	GGC	GCG	AGC	GTG														
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	MSPro2 (SEQ ID NO: 84)	CAG	GTG	CAA	TTG	GTT	CAG	AGC	GGC	GCG	GAA	GTG	AAA	AAA	CCG	GGC	GCG	AGC	GTG														
	MSPro11 (SEQ ID NO: 85)	CAG	GTG	CAA	TTG	GTT	CAG	AGC	GGC	GCG	GAA	GTG	AAA	AAA	CCG	GGC	GCG	AGC	GTG														
	MSPro26 (SEQ ID NO: 86)	CAG	GTG	CAA	TTG	GTT	CAG	AGC	GGC	GCG	GAA	GTG	AAA	AAA	CCG	GGC	GCG	AGC	GTG														
	MSPro29 (SEQ ID NO: 87)	CAG	GTG	CAA	TTG	GTT	CAG	AGC	GGC	GCG	GAA	GTG	AAA	AAA	CCG	GGC	GCG	AGC	GTG														
	VH2 (SEQ ID NO: 88)	GAA/CAG	GTG	CAA	TTG	AAA	GAA	AGC	GGC	CCG	CCC	CTG	GTG	AAA	CCG	ACC	CAA	ACC	CTG														
	MSPro12 (SEQ ID NO: 89)	CAG	GTG	CAA	TTG	AAA	GAA	AGC	GGC	CCG	CCC	CTG	GTG	AAA	CCG	ACC	CAA	ACC	CTG														
	VH6 (SEQ ID NO: 90)	GAA/CAG	GTG	CAA	TTG	CAA	CAG	TCT	GGT	CCG	GGC	CTG	GTG	AAA	CCG	AGC	CAA	ACC	CTG														
	MSPro59 (SEQ ID NO: 91)	CAG	GTG	CAA	TTG	CAA	CAG	TCT	GGT	CCG	GGC	CTG	GTG	AAA	CCG	AGC	CAA	ACC	CTG														

31/36

Figure 30 cont.

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psti										BspEI										BstXI									
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GTG ACC	ATT	ACC	TGC	AGA	GCG	AGC	CAG	GGC	ATT	AGC	AGC	---	---	---	---	---	TAT	CTG	GCG	TGG	TAC	CAG	CAG	CAG	CAG	CAG	CAG	CAG	CAG
GCG ACC	CTG	AGC	TGC	AGA	GCG	AGC	CAG	AGC	GTG	AGC	AGC	---	---	---	---	---	AGC	TAT	CTG	GCG	TGG	TAC	CAG	CAG	CAG	CAG	CAG	CAG	CAG
GCG ACC	CTG	AGC	TGC	AGA	GCG	AGC	CAG	AGC	GTG	AGC	AGC	---	---	---	---	---	AGC	TAT	CTG	GCG	TGG	TAC	CAG	CAG	CAG	CAG	CAG	CAG	CAG
GCG ACC	CTG	AGC	TGC	AGA	GCG	AGC	CAG	AGC	GTG	AGC	AGC	---	---	---	---	---	AGC	TAT	CTG	GCG	TGG	TAC	CAG	CAG	CAG	CAG	CAG	CAG	CAG
GCG ACC	ATT	AAC	TGC	AGA	AGC	AGC	CAG	AGC	GTG	CTG	TAT	AGC	AGC	AAC	AAA	AAC	TAT	CTG	GCG	TGG	TAC	CAG	CAG	CAG	CAG	CAG	CAG	CAG	CAG
GCG ACC	ATT	AAC	TGC	AGA	AGC	AGC	CAG	AGC	GTG	CTG	TAT	AGC	AGC	AAC	AAA	AAC	TAT	CTG	GCG	TGG	TAC	CAG	CAG	CAG	CAG	CAG	CAG	CAG	CAG
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ATT ACC	ATC	TCG	TGT	ACG	GGT	ACT	AGC	AGC	GAT	GTG	GGC	GGC	TAT	AAC	---	---	TAT	GTG	AGC	TGG	TAC	CAG	CAG	CAG	CAG	CAG	CAG	CAG	CAG
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GCG CGT	ATC	TCG	TGT	ACG	GGC	---	GAT	GCG	---	CTG	GGC	GAT	AAA	---	---	---	TAC	GCG	AGC	TGG	TAC	CAG	CAG	CAG	CAG	CAG	CAG	CAG	CAG
GCG CGT	ATC	TCG	TGT	ACG	GGC	---	GAT	GCG	---	CTG	GGC	GAT	AAA	---	---	---	TAC	GCG	AGC	TGG	TAC	CAG	CAG	CAG	CAG	CAG	CAG	CAG	CAG
GCG CGT	ATC	TCG	TGT	ACG	GGC	---	GAT	GCG	---	CTG	GGC	GAT	AAA	---	---	---	TAC	GCG	AGC	TGG	TAC	CAG	CAG	CAG	CAG	CAG	CAG	CAG	CAG

32/36

Figure 30 cont.

Framework 2										CDR 2										Framework 3									
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SexAI										AseI										SanDI									
AAA	CCA	GGT	AAA	GCA	CCG	AAA	CTA	TTA	ATT	TAT	GCA	GCC	AGC	AGC	TTG	CAA	AGC	GGG	GTC	CCG	TCC	CGT	TTT	AGC	GGC				
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AAA	CCC	GGG	CAG	GCG	CCA	GTT	CTG	GTG	ATT	TAT	GAT	GAT	TCT	GAC	CGT	CCC	TCA	GSC	ATC	CCG	GAA	CGC	TTT	AGC	GGA				
AAA	CCC	GGG	CAG	GCG	CCA	GTT	CTG	GTG	ATT	TAT	GAT	GAT	TCT	GAC	CGT	CCC	TCA	GSC	ATC	CCG	GAA	CGC	TTT	AGC	GGA				
AAA	CCC	GGG	CAG	GCG	CCA	GTT	CTG	GTG	ATT	TAT	GAT	GAT	TCT	GAC	CGT	CCC	TCA	GSC	ATC	CCG	GAA	CGC	TTT	AGC	GGA				

33/36

33/36

Framework 2										CDR 2																			
3	4	5	6	7	8	9	0	1	2	a	b	c	3	4	5	6	7	8	9	0	1	2	3	4	5				
XhoI																													
CAG	GGT	CTC	GAG	TGG	ATG	GGC	GGC	ATT	ATT	CCG	-	-	ATT	TTT	GGC	ACG	GCG	AAC	TAC	GCG	CAG	AAG	TTT	CAG	GGC				
CAG	GGT	CTC	GAG	TGG	ATG	GGC	GGC	ATT	ATT	CCG	-	-	ATT	TTT	GGC	ACG	GCG	AAC	TAC	GCG	CAG	AAG	TTT	CAG	GGC				
CAG	GGT	CTC	GAG	TGG	ATG	GGC	GGC	ATT	ATT	CCG	-	-	ATT	TTT	GGC	ACG	GCG	AAC	TAC	GCG	CAG	AAG	TTT	CAG	GGC				
CAG	GGT	CTC	GAG	TGG	ATG	GGC	TGG	ATT	AAC	CCG	-	-	AAT	AGC	GGC	GGC	ACG	AAC	TAC	GCG	CAG	AAG	TTT	CAG	GGC				
CAG	GGT	CTC	GAG	TGG	ATG	GGC	TGG	ATT	AAC	CCG	-	-	AAT	AGC	GGC	GGC	ACG	AAC	TAC	GCG	CAG	AAG	TTT	CAG	GGC				
CAG	GGT	CTC	GAG	TGG	ATG	GGC	TGG	ATT	AAC	CCG	-	-	AAT	AGC	GGC	GGC	ACG	AAC	TAC	GCG	CAG	AAG	TTT	CAG	GGC				
CAG	GGT	CTC	GAG	TGG	ATG	GGC	TGG	ATT	AAC	CCG	-	-	AAT	AGC	GGC	GGC	ACG	AAC	TAC	GCG	CAG	AAG	TTT	CAG	GGC				
CAG	GGT	CTC	GAG	TGG	ATG	GGC	TGG	ATT	AAC	CCG	-	-	AAT	AGC	GGC	GGC	ACG	AAC	TAC	GCG	CAG	AAG	TTT	CAG	GGC				
CAG	GGT	CTC	GAG	TGG	ATG	GGC	TGG	ATT	AAC	CCG	-	-	AAT	AGC	GGC	GGC	ACG	AAC	TAC	GCG	CAG	AAG	TTT	CAG	GGC				
CAG	GGT	CTC	GAG	TGG	ATG	GGC	TGG	ATT	AAC	CCG	-	-	AAT	AGC	GGC	GGC	ACG	AAC	TAC	GCG	CAG	AAG	TTT	CAG	GGC				
AAA	GCC	CTC	GAG	TGG	CTG	GCT	CTG	ATT	GAT	-	-	-	TGG	GAT	GAT	GAT	AAG	TAT	TAT	AGC	ACC	AGC	CTG	AAA	ACG				
AAA	GCC	CTC	GAG	TGG	CTG	GCT	CTG	ATT	GAT	-	-	-	TGG	GAT	GAT	GAT	AAG	TAT	TAT	AGC	ACC	AGC	CTG	AAA	ACG				
CGT	GGC	CTC	GAG	TGG	CTG	GGC	CGT	ACC	TAT	TAT	CGT	-	-	AGC	AAA	TGG	TAT	AAC	GAT	TAT	GCG	GTG	AGC	GTG	AAA	ACG			
CGT	GGC	CTC	GAG	TGG	CTG	GGC	CGT	ACC	TAT	TAT	CGT	-	-	AGC	AAA	TGG	TAT	AAC	GAT	TAT	GCG	GTG	AGC	GTG	AAA	ACG			

Figure 30 cont.

Framework 3

5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	
BamHI										BbsI														
TCT	GGA	TCC	GGC	ACT	GAT	TTT	ACC	CTG	ACC	ATT	AGC	AGC	CTG	CAA	CCT	GAA	GAC	TTT	GCG	T/G	TAT	TAT	TAT	TGC
TCT	GGA	TCC	GGC	ACT	GAT	TTT	ACC	CTG	ACC	ATT	AGC	AGC	CTG	CAA	CCT	GAA	GAC	TTT	GCG	GTT	TAT	TAT	TAT	TGC
TCT	GGA	TCC	GGC	ACG	GAT	TTT	ACC	CTG	ACC	ATT	AGC	AGC	CTG	CAA	CCT	GAA	GAC	TTT	GCG	T/G	TAT	TAT	TAT	TGC
TCT	GGA	TCC	GGC	ACG	GAT	TTT	ACC	CTG	ACC	ATT	AGC	AGC	CTG	CAA	CCT	GAA	GAC	TTT	GCG	ACT	TAT	TAT	TAT	TGC
TCT	GGA	TCC	GGC	ACG	GAT	TTT	ACC	CTG	ACC	ATT	AGC	AGC	CTG	CAA	CCT	GAA	GAC	TTT	GCG	ACT	TAT	TAT	TAT	TGC
TCT	GGA	TCC	GGC	ACT	GAT	TTT	ACC	CTG	ACC	ATT	TCG	TCC	CTG	CAA	GCT	GAA	GAC	CTG	GCG	GTG	TAT	TAT	TAT	TGC
TCT	GGA	TCC	GGC	ACT	GAT	TTT	ACC	CTG	ACC	ATT	TCG	TCC	CTG	CAA	GCT	GAA	GAC	CTG	GCG	GTG	TAT	TAT	TAT	TGC
TCC	AAA	AGC	GGC	AAC	ACC	GCG	AGC	CTG	ACC	ATT	AGC	GGC	CTG	CAA	GCG	GAA	GAC	GAA	GCG	GAT	TAT	TAT	TAT	TGC
TCC	AAA	AGC	GGC	AAC	ACC	GCG	AGC	CTG	ACC	ATT	AGC	GGC	CTG	CAA	GCG	GAA	GAC	GAA	GCG	GAT	TAT	TAT	TAT	TGC
TCC	AAA	AGC	GGC	AAC	ACC	GCG	AGC	CTG	ACC	ATT	AGC	GGC	CTG	CAA	GCG	GAA	GAC	GAA	GCG	GAT	TAT	TAT	TAT	TGC
TCC	AAA	AGC	GGC	AAC	ACC	GCG	AGC	CTG	ACC	ATT	AGC	GGC	CTG	CAA	GCG	GAA	GAC	GAA	GCG	GAT	TAT	TAT	TAT	TGC
TCC	AAC	AGC	GGC	AAC	ACC	GCG	AGC	CTG	ACC	ATT	AGC	GGC	CTG	CAA	GCG	GAA	GAC	GAA	GCG	GAT	TAT	TAT	TAT	TGC
TCC	AAC	AGC	GGC	AAC	ACC	GCG	AGC	CTG	ACC	ATT	AGC	GGC	CTG	CAA	GCG	GAA	GAC	GAA	GCG	GAT	TAT	TAT	TAT	TGC
TCC	AAC	AGC	GGC	AAC	ACC	GCG	AGC	CTG	ACC	ATT	AGC	GGC	CTG	CAA	GCG	GAA	GAC	GAA	GCG	GAT	TAT	TAT	TAT	TGC

34/36

Framework 3

6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6				
BstEII										NspV														
CGG	GTG	ACC	ATT	ACC	GCG	GAT	GAA	AGC	ACC	AGC	ACC	GCG	TAT	ATG	GAA	CTG	AGC	AGC	CTG	CGT	AGC	GAA	GAT	
CGG	GTG	ACC	ATT	ACC	GCG	GAT	GAA	AGC	ACC	AGC	ACC	GCG	TAT	ATG	GAA	CTG	AGC	AGC	CTG	CGT	AGC	GAA	GAT	
CGG	GTG	ACC	ATT	ACC	GCG	GAT	GAA	AGC	ACC	AGC	ACC	GCG	TAT	ATG	GAA	CTG	AGC	AGC	CTG	CGT	AGC	GAA	GAT	
CGG	GTG	ACC	ATT	ACC	GCG	GAT	GAA	AGC	ACC	AGC	ACC	GCG	TAT	ATG	GAA	CTG	AGC	AGC	CTG	CGT	AGC	GAA	GAT	
CGG	GTG	ACC	ATT	ACC	GCG	GAT	GAA	AGC	ACC	AGC	ACC	GCG	TAT	ATG	GAA	CTG	AGC	AGC	CTG	CGT	AGC	GAA	GAT	
CGG	GTG	ACC	ATT	ACC	GCG	GAT	GAA	AGC	ACC	AGC	ACC	GCG	TAT	ATG	GAA	CTG	AGC	AGC	CTG	CGT	AGC	GAA	GAT	
CGG	GTG	ACC	ATT	ACC	GCG	GAT	GAA	AGC	ACC	AGC	ACC	GCG	TAT	ATG	GAA	CTG	AGC	AGC	CTG	CGT	AGC	GAA	GAT	
CGG	GTG	ACC	ATT	ACC	GCG	GAT	GAA	AGC	ACC	AGC	ACC	GCG	TAT	ATG	GAA	CTG	AGC	AGC	CTG	CGT	AGC	GAA	GAT	
CGG	GTG	ACC	ATT	ACC	GCG	GAT	GAA	AGC	ACC	AGC	ACC	GCG	TAT	ATG	GAA	CTG	AGC	AGC	CTG	CGT	AGC	GAA	GAT	
CGG	GTG	ACC	ATT	ACC	GCG	GAT	GAA	AGC	ACC	AGC	ACC	GCG	TAT	ATG	GAA	CTG	AGC	AGC	CTG	CGT	AGC	GAA	GAT	
CGG	GTG	ACC	ATT	ACC	GCG	GAT	GAA	AGC	ACC	AGC	ACC	GCG	TAT	ATG	GAA	CTG	AGC	AGC	CTG	CGT	AGC	GAA	GAT	
CGG	GTG	ACC	ATT	ACC	GCG	GAT	GAA	AGC	ACC	AGC	ACC	GCG	TAT	ATG	GAA	CTG	AGC	AGC	CTG	CGT	AGC	GAA	GAT	
CGT	CTG	ACC	ATT	AGC	AAA	GAT	ACT	TCG	AAA	AAT	CAG	GTG	GTG	CTG	ACT	ATG	ACC	AAC	ATG	GAC	CCG	GTG	GAT	
CGT	CTG	ACC	ATT	AGC	AAA	GAT	ACT	TCG	AAA	AAT	CAG	GTG	GTG	CTG	ACT	ATG	ACC	AAC	ATG	GAC	CCG	GTG	GAT	
CGG	ATT	ACC	ATC	AAC	CCG	GAT	ACT	TCG	AAA	AAC	AAC	CGT	TTT	AGC	CTG	CAA	CTG	AAC	AGC	GTG	ACC	CCG	GAA	GAT
CGG	ATT	ACC	ATC	AAC	CCG	GAT	ACT	TCG	AAA	AAC	CAG	TTT	AGC	CTG	CAA	CTG	AAC	AGC	GTG	ACC	CCG	GAA	GAT	

Figure 30 cont.

CDR 3										Framework 4												
9	0	1	2	3	4	5	a	b	6	7	8	9	0	1	2	3	4	5	6	7	8	9
MscI																						
x	CAG	x	x	x	x	x		x	x	ACC	TTT	GGC	CAG	GGT	ACG	AAA	GTT	GAA	ATT	AAA	CGT	ACG
TTT	CAG	TAT	GGT	TCT	ATT	CCT	CCT			ACC	TTT	GGC	CAG	GGT	ACG	AAA	GTT	GAA	ATT	AAA	CGT	ACG
x	CAG	x	x	x	x	x			x	ACC	TTT	GGC	CAG	GGT	ACG	AAA	GTT	GAA	ATT	AAA	CGT	ACG
CAG	CAG	ATG	TCT	AAT	TAT	CCT	GAT			ACC	TTT	GGC	CAG	GGT	ACG	AAA	GTT	GAA	ATT	AAA	CGT	ACG
CAG	CAG	ACT	AAT	AAT	GCT	CCT	GTT			ACC	TTT	GGC	CAG	GGT	ACG	AAA	GTT	GAA	ATT	AAA	CGT	ACG
x	CAG	x	x	x	x	x			x	ACC	TTT	GGC	CAG	GGT	ACG	AAA	GTT	GAA	ATT	AAA	CGT	ACG
CAG	CAG	TAT	GAT	TCT	ATT	CCT	TAT			ACC	TTT	GGC	CAG	GGT	ACG	AAA	GTT	GAA	ATT	AAA	CGT	ACG
CAG	x	x	GAC	x	x	x	(x)	(x)	x	GTG	TTT	GGC	G3C	GGC	ACG	AAg	TTA	ACC	GTT	CTT	GGC	CAG
CAG	AGC	TAT	GAC	ATG	TAT	AAT	TAT	ATT		GTG	TTT	GGC	G3C	GGC	ACG	AAg	TTA	ACC	GTT	CTT	GGC	CAG
CAG	TCT	CAT		CAT	TTT	TAT	GAG			GTG	TTT	GGC	G3C	GGC	ACG	AAg	TTA	ACC	GTT	CTT	GGC	CAG
CAG	AGC	TAT	GAC	AAT	AAT	TCT	GAT	GTT		GTG	TTT	GGC	G3C	GGC	ACG	AAg	TTA	ACC	GTT	CTT	GGC	CAG
CAG	x	x	GAC	x	x	x	(x)	(x)	x	GTG	TTT	GGC	G3C	GGC	ACG	AAg	TTA	ACC	GTT	CTT	GGC	CAG
CAG	AGC	TAT	GAC	TAT	TTT	AAG	CTT	x		GTG	TTT	GGC	G3C	GGC	ACG	AAg	TTA	ACC	GTT	CTT	GGC	CAG
CAG	AGC	TAT	GAC	TAT	TCT	GCT	GAT	TAT		GTG	TTT	GGC	G3C	GGC	ACG	AAg	TTA	ACC	GTT	CTT	GGC	CAG
CAG	AGC	TAT	GAC	TTT	GAT	TTT	GCT			GTG	TTT	GGC	G3C	GGC	ACG	AAg	TTA	ACC	GTT	CTT	GGC	CAG
CAG	AGC	TAT	GAC	GGT	CCT	GAT	CTT	TGG		GTG	TTT	GGC	G3C	GGC	ACG	AAg	TTA	ACC	GTT	CTT	GGC	CAG
CDR 3																						
7	8	9	0	1	2	3	4	5	6	7	8	9	0	a	b	c	d	e	f	g	h	i

36/36

35/36

[illegible]

Figure 30 cont.

CDR3										Framework 4									
J	k	1	1	2	2	3	4	5	6	7	8	9	0	1	2	3			
x	x	x	x	GAT	x	TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	BlpI		
CCT	TTT	TCT	GAT	GTT		TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	GC		
TAT	ACT	TTT	GAT	TAT		TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	GC		
TAT	CTT	TTT	GAT	CTT		TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	GC		
x	x	x	x	GAT	x	TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	GC		
CCT	CAT	TTT	GAT	TAT		TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	GC		
GTT	CTT	TTT	GAT	CAT		TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	GC		
TAT	GAG	TTT	GAT	TAT		TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	GC		
GGT	TTT	ATT	GAT	TAT		TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	GC		
GGT	TAT	TTT	GAT	AAT		TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	GC		
TAT	TAT	TTT	GAT	ATT		TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	GC		
x	x	x	x	GAT	x	TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	GC		
TAT	ATG	TTT	GAT	TAT		TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	GC		
x	x	x	x	GAT	x	TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	GC		
CCT	GAT	TTT	GAT	TAT		TGG	GSC	CAA	GSC	ACC	CTG	GTG	ACG	GTT	AGC	TCA	GC		